

Welcome!

This is the first in a series of teaching aids designed **by** teachers **for** teachers at level 4. The worksheets are designed to support the delivery of the National Curriculum in a variety of teaching and learning styles. They are not designed to take the pedagogy away from the teacher. The worksheets are centred around the shown level, but spiral from the level below to the level above. Consult the National Numeracy Strategy for definitive National Curriculum levels. They can be used by parents with the support of the on-line help facility at www.10ticks.co.uk.

Contents and Teacher Notes.

- Pages 3/4. **Mental addition and subtraction.**
Traditional text book exercise. After learning the skill these are then put into a practical situation in the worded questions.
- Pages 5/6. **Number Pyramids.**
The theme of pyramid addition and subtraction will appear in later packs using decimals, negative numbers and algebra. Here you can practice the style of questions. Algebra can be brought into the last few questions to solve them, though at this level trial and improvement may be better.
- Pages 7/8. **Magic Squares.**
Its an old idea, but a favourite!
- Pages 9/10. **Addon-agons.**
Various polygons that use additions and subtractions to solve them. Less able pupils might be best missing out questions 31, 32, 39, 40, 48. Linked with these questions is an investigation for the more able pupils. Look at the triangle addon-agons. For those that have just the answers given i.e. the squares filled in, is there only one unique answer ?
Is this the same for the square addon-agons, the pentagonal addon-agons etc.?
- Pages 11/12. **Harder Addon-agons.**
As above, but more difficult. Again beware of certain questions for the less able, questions 31, 32, 39, 40, 47, 48.
- Pages 13/14. **Two-digit addition/Inkblots.**
Traditional textbook addition. The inkblots test out the feel and depth of knowledge pupils have for addition, hopefully spotting the inverse nature of addition and subtraction along the way. Watch out for the carries.
- Pages 15/16. **Two-digit subtraction/Inkblots.**
Traditional textbook subtraction. The inkblots test out the feel and depth of knowledge pupils have for subtraction. Watch out for the carries.
- Pages 17/18. **Three-digit addition/Inkblots.**
As above.
- Pages 19/20. **Three-digit subtraction/Inkblots.**
As pages 15/16.
- Pages 21/22. **Word Search. Single digit addition and subtraction.**
Do the sum, write out the answer in words and find it in the grid.
Good to check the spellings of numbers.

- Pages 23/24. **Word Search. Two digit addition and subtraction.**
Do the sum, write out the answer in words and find it in the grid.
Good to check the spellings of numbers.
- Page 25. **Adding and Subtracting Investigations.**
Four investigations that require addition and subtraction skills.
- Page 26. **Polite and Rude Numbers.**
An investigation with consecutive numbers.
- Pages 27/28. **Star Maze (addition).**
Puzzles. These make ideal wall display material. Get pupils to make their own up and colour in!
- Pages 29/30. **Star Maze (Subtraction).**
As above
- Page 31. **Four in a Line-Addition.**
Game of addition.
- Page 32. **Four in a Line-Subtraction.**
Game of subtraction.
- Page 33. **Hex-an adding and subtracting Game.**
A game of addition/subtraction.
- Page 34. **Star Wars.**
A game of addition.
- Pages 35/36. **Magic Squares 2.**
More magic squares, but with bigger numbers!
- Page 37. **Triangle.**
Puzzle using addition skills.
- Page 38. **Boxes. Dice Games.**
Games to consolidate addition and subtraction using dice.
- Page 39. **Jump 10.**
Game to reinforce adding and subtracting by 10. When playing games such as this it is important that pupils say the starting number, the number they roll on the die and the end number. Alternatively this information could be recorded in a table (as in Football crazy). Counting on will not improve their skills!
- Page 40. **Football Crazy.**
Game using basic addition and subtraction skills and some cunning strategies!
- Pages 41/42. **Wheels (Addition/Subtraction).**
Another form of practice for addition and subtraction of 2 and 3 digit numbers.

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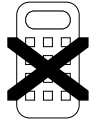
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Mental Addition and Subtraction.



All of the following sums are to be worked out in your head.
No paper calculation is allowed.

Single Digits.

- | | | | |
|--------------------------|--------------------------|--------------------------|----------------------|
| 1). $4 + 8 + 7$ | 2). $7 + 2 + 5$ | 3). $6 + 3 + 7$ | 4). $7 + 5 + 8$ |
| 5). $8 + 4 + 3$ | 6). $2 + 7 + 6$ | 7). $8 + 3 + 5$ | 8). $4 + 5 + 9$ |
| 9). $5 + 8 + 6$ | 10). $4 + 7 + 3$ | 11). $9 + 4 + 7$ | 12). $5 + 7 + 4$ |
| 13). $9 + 6 - 3$ | 14). $4 - 1 + 7$ | 15). $7 - 4 + 9$ | 16). $6 + 8 - 5$ |
| 17). $4 + 8 - 9$ | 18). $6 - 5 + 7$ | 19). $3 + 5 - 7$ | 20). $9 - 6 + 7$ |
| 21). $8 - 5 + 6$ | 22). $9 + 7 - 5$ | 23). $3 + 7 - 9$ | 24). $8 - 4 + 7$ |
| 25). $4 + 7 + 5 + 3$ | 26). $2 + 7 + 3 + 5$ | 27). $6 + 3 + 8 + 2$ | 28). $3 + 7 + 8 + 1$ |
| 29). $2 + 5 + 3 + 9$ | 30). $8 + 3 + 6 + 3$ | 31). $7 + 4 + 1 + 7$ | 32). $8 + 5 + 9 + 4$ |
| 33). $6 + 7 + 4 + 8$ | 34). $6 + 9 + 9 + 7$ | 35). $9 + 7 + 8 + 7$ | 36). $8 + 8 + 9 + 7$ |
| 37). $7 + 8 - 3 + 5$ | 38). $7 - 5 + 3 + 7$ | 39). $3 + 6 - 8 + 5$ | 40). $6 - 1 + 9 + 4$ |
| 41). $3 + 7 + 5 - 8$ | 42). $4 + 7 + 3 - 9$ | 43). $8 - 5 + 3 + 6$ | 44). $7 + 5 - 8 + 6$ |
| 45). $9 - 5 + 7 + 8$ | 46). $7 - 3 + 8 - 5$ | 47). $9 + 7 - 3 - 6$ | 48). $8 - 3 - 4 + 9$ |
| 49). $5 + 7 + 4 + 8 + 2$ | 50). $4 + 2 + 7 + 8 + 6$ | 51). $8 + 3 + 5 + 4 + 6$ | |
| 52). $3 + 5 + 4 + 7 + 4$ | 53). $6 + 2 + 6 + 3 + 5$ | 54). $3 + 7 + 5 + 8 + 4$ | |
| 55). $6 + 3 + 7 + 5 + 8$ | 56). $8 + 4 + 3 + 7 + 5$ | 57). $7 + 4 + 5 + 3 + 9$ | |
| 58). $7 + 6 - 4 + 7 - 8$ | 59). $9 - 5 + 8 + 4 - 3$ | 60). $6 + 9 - 7 + 5 - 4$ | |
| 61). $9 - 5 + 8 - 6 + 3$ | 62). $9 - 5 - 2 + 8 + 7$ | 63). $5 + 8 + 6 - 7 - 4$ | |
| 64). $5 + 6 - 7 + 9 - 7$ | 65). $3 + 9 - 7 - 5 + 8$ | 66). $9 + 8 - 7 + 8 - 5$ | |

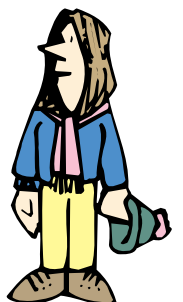
Two Digits.

Addition.

- | | | | |
|----------------|----------------|----------------|----------------|
| 1). $15 + 23$ | 2). $25 + 31$ | 3). $26 + 13$ | 4). $32 + 25$ |
| 5). $42 + 56$ | 6). $36 + 33$ | 7). $42 + 16$ | 8). $50 + 35$ |
| 9). $24 + 33$ | 10). $46 + 51$ | 11). $26 + 41$ | 12). $64 + 22$ |
| 13). $24 + 37$ | 14). $14 + 18$ | 15). $26 + 14$ | 16). $36 + 15$ |
| 17). $45 + 17$ | 18). $36 + 28$ | 19). $19 + 35$ | 20). $27 + 46$ |
| 21). $63 + 18$ | 22). $38 + 29$ | 23). $37 + 45$ | 24). $57 + 39$ |
| 25). $53 + 72$ | 26). $43 + 82$ | 27). $64 + 83$ | 28). $35 + 73$ |
| 29). $26 + 93$ | 30). $86 + 50$ | 31). $61 + 74$ | 32). $80 + 78$ |
| 33). $65 + 73$ | 34). $45 + 81$ | 35). $94 + 72$ | 36). $87 + 91$ |
| 37). $56 + 67$ | 38). $75 + 48$ | 39). $39 + 74$ | 40). $68 + 55$ |
| 41). $46 + 98$ | 42). $64 + 86$ | 43). $84 + 67$ | 44). $78 + 86$ |
| 45). $95 + 67$ | 46). $79 + 89$ | 47). $98 + 86$ | 48). $85 + 97$ |

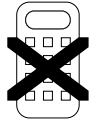
Subtraction.

- | | | | |
|----------------|----------------|----------------|----------------|
| 1). $47 - 23$ | 2). $37 - 16$ | 3). $59 - 34$ | 4). $45 - 21$ |
| 5). $42 - 30$ | 6). $36 - 12$ | 7). $49 - 35$ | 8). $54 - 33$ |
| 9). $74 - 31$ | 10). $86 - 21$ | 11). $76 - 51$ | 12). $94 - 42$ |
| 13). $73 - 33$ | 14). $54 - 11$ | 15). $86 - 54$ | 16). $96 - 45$ |
| 17). $65 - 32$ | 18). $56 - 26$ | 19). $59 - 35$ | 20). $77 - 46$ |
| 21). $33 - 28$ | 22). $28 - 19$ | 23). $32 - 25$ | 24). $27 - 18$ |
| 25). $43 - 26$ | 26). $46 - 27$ | 27). $54 - 26$ | 28). $55 - 17$ |
| 29). $66 - 48$ | 30). $56 - 27$ | 31). $61 - 34$ | 32). $80 - 16$ |
| 33). $95 - 69$ | 34). $85 - 38$ | 35). $94 - 17$ | 36). $87 - 68$ |
| 37). $96 - 17$ | 38). $75 - 29$ | 39). $90 - 22$ | 40). $83 - 54$ |





Mental Addition and Subtraction.

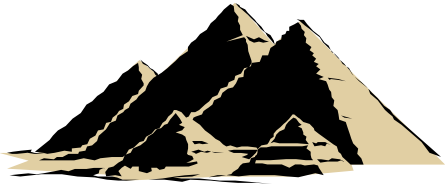


All of the following sums are to be worked out in your head.
No calculator or paper calculations are allowed.

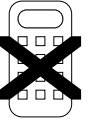
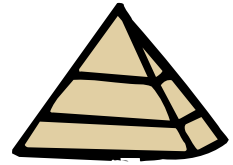
Worded Questions.

- 1). Jane bought two comics. One cost 36p the other 48p. What is the total cost of the two comics ?
- 2). 9 people are on a bus. At the next stop 3 people get off and 8 people get on. How many people are now on the bus ?
- 3). A shop had 83 tins of soup at the start of the day. 36 tins are sold during the day. How many tins of soup did the shop have left at the end of the day ?
- 4). The staff car park holds 48 cars when full. The overflow car park holds 27 cars when full. What is the total number of cars that the two car parks can hold when full ?
- 5). Jenny counts her coloured pencils. She has 4 red, 6 green, 3 yellow and 9 blue pencils. How many coloured pencils does she have all together ?
- 6). Anthony has 76p. He spends 28p on sweets. How much does he have left ?
- 7). A minibus has 7 passengers on board. At the first stop 5 get off and 8 passengers get on. At the next stop 9 get off and 4 passengers get on. How many are now on the minibus ?
- 8). Laura plays marbles. She has 6 to start with. She wins 9 more, then loses 3 in the first game. In the second game she loses 7 and wins 2. How many marbles does she have left at the end ?
- 9). Jim collects football programmes. He has 78. His Uncle visits him and gives him another 64. How many programmes does Jim now have ?
- 10). The teacher sorts out groups for P.E.. In the first group are 7 pupils, in the second 8, in the third 5 and in the fourth 9 pupils. How many pupils are there all together ?
- 11). In Class One there are 36 pupils and in Class Two there are 28 pupils. How many pupils are there in total in the two classes ?
- 12). Bill looks at the marks for his last few homeworks :- 9 in Maths, 6 in English, 7 in History and 5 in Science. How many marks has he got in total for all the subjects ?
- 13). A farmer looks at the trees in his orchard. He has 87 apple trees and 74 pear trees. How many trees has he in total ?
- 14). Ben plays marbles. He has 4 at the start. He wins 7 more, then loses 5 in the first game. In the second game he loses 3 and wins 9. How many marbles does he have left at the end ?
- 15). John makes 86 cream cakes. He sells 59, how many does he have left over ?
- 16). Caroline has been strawberry picking. In one basket she has 47 strawberries and in the other she has 76 strawberries. How many has she picked all together ?



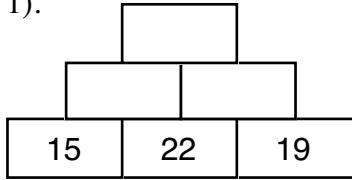


Number Pyramids.

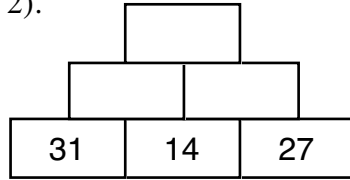


To find the next number, **add** the two bricks below it.
Copy each pyramid and fill in the missing numbers.

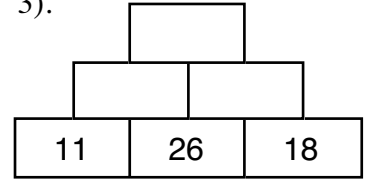
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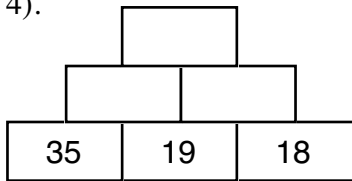
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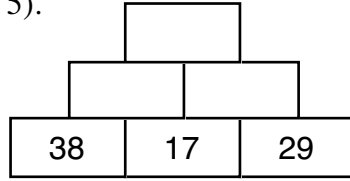
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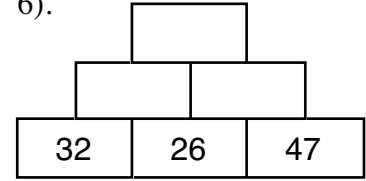
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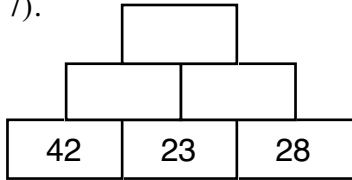
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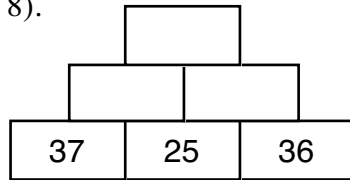
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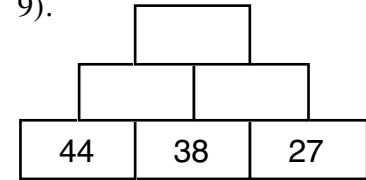
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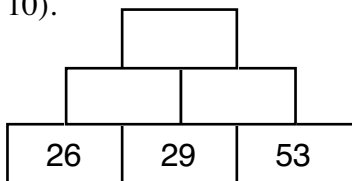
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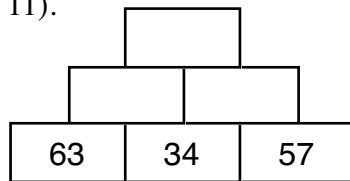
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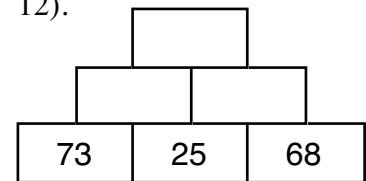
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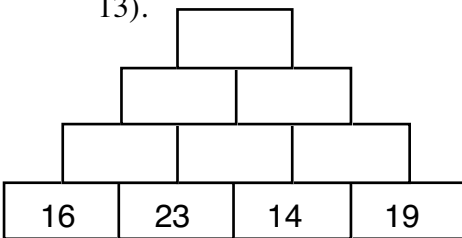
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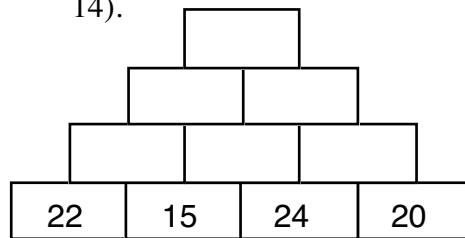
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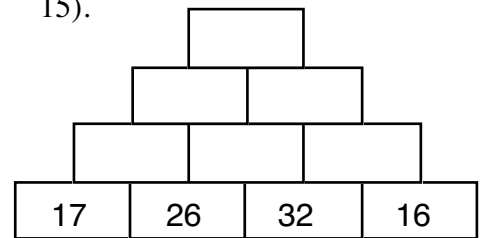
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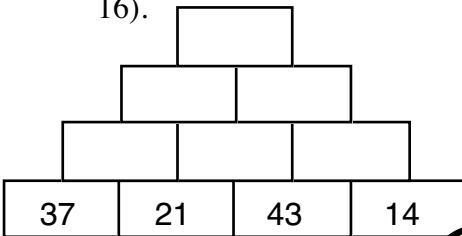
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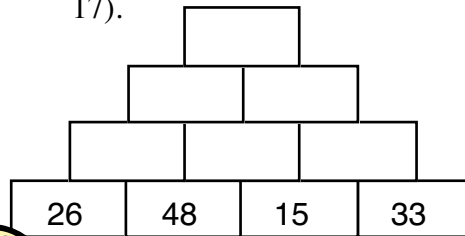
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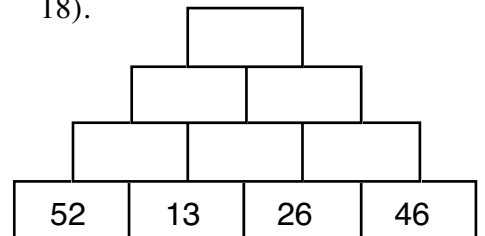
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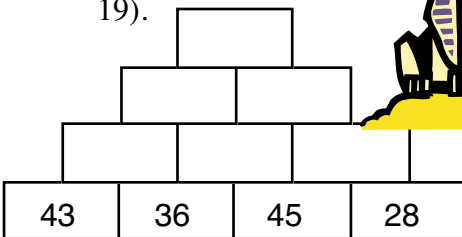
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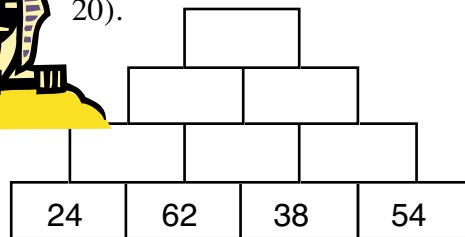
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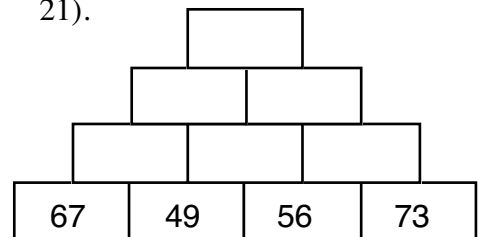
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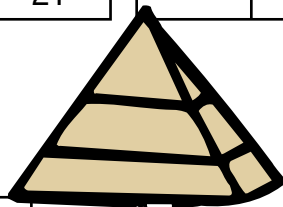
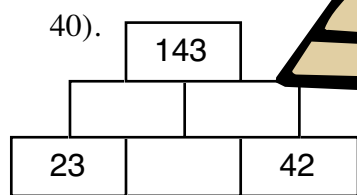
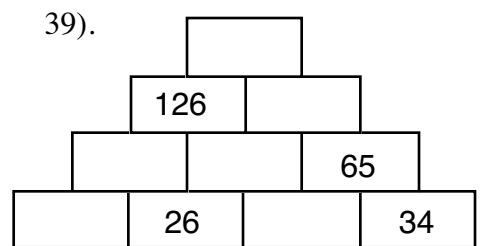
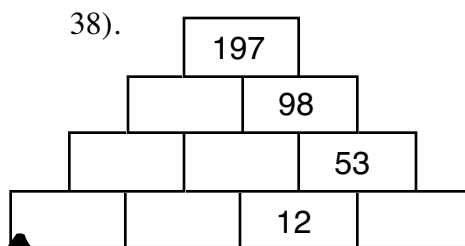
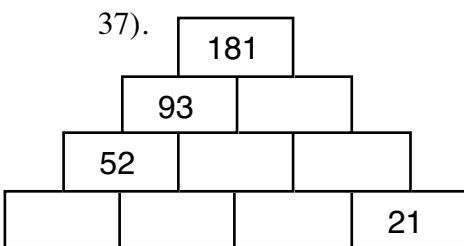
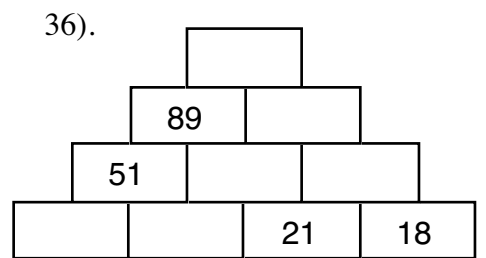
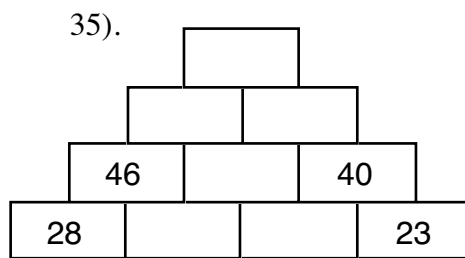
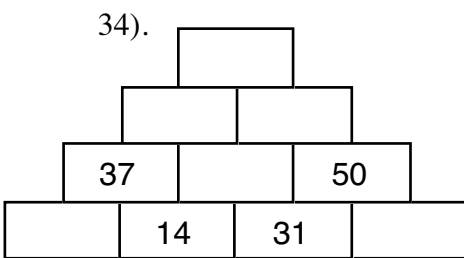
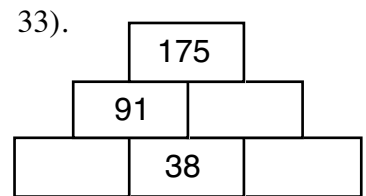
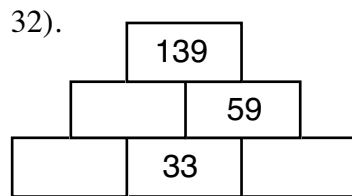
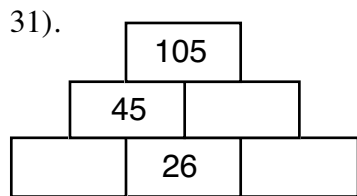
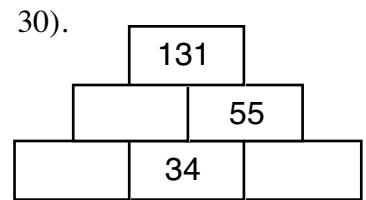
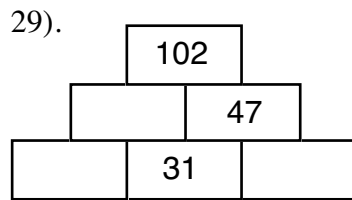
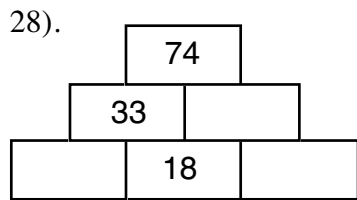
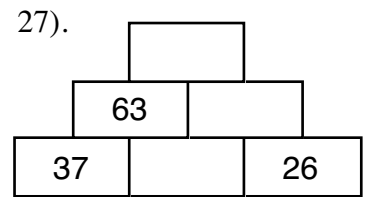
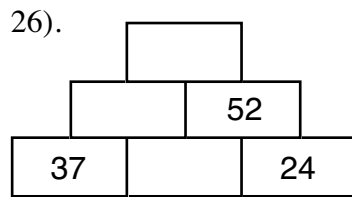
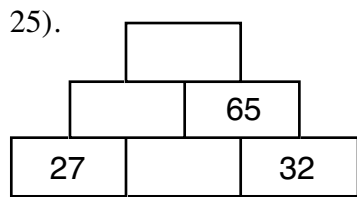
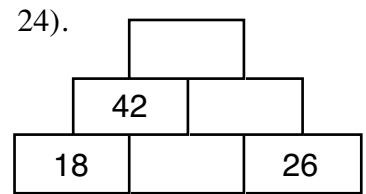
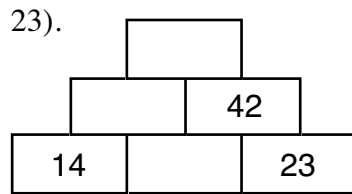
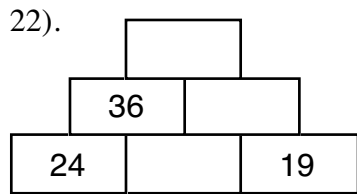


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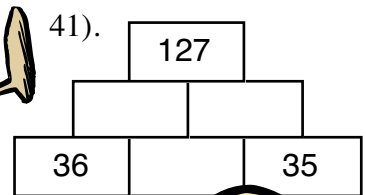
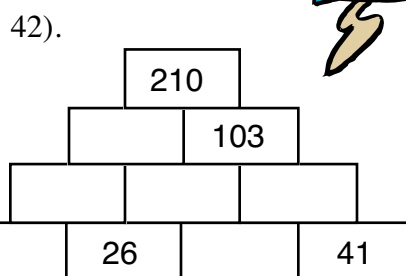


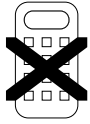
21).





Difficult.





Magic Squares.

In a Magic Square the rows, columns and diagonals **all add up** to the same number. This is the **Magic Number**.
Complete the following Magic Squares and find their Magic Numbers.



1).

8	2	11
	7	

Magic Number = ____

2).

5		
	6	2
		7

Magic Number = ____

3).

10	8	6
9		

Magic Number = ____

4).

4		
	6	1
		8

Magic Number = ____

5).

		3
2	9	4

Magic Number = ____

6).

		12
	10	11
8		

Magic Number = ____

7).

9	2	10
	12	

Magic Number = ____

8).

14		
5		
8		4

Magic Number = ____

9).

11	1	12
	15	

Magic Number = ____

10).

		15
		1
	13	11

Magic Number = ____

11).

11	7	3
		8

Magic Number = ____

12).

		8
	9	
10		12

Magic Number = ____

13).

	18	8
	10	
	2	

Magic Number = ____



14).

		6
	12	
18	8	

Magic Number = ____

15).

		15
13	18	11

Magic Number = ____

16).

6		
	8	9

Magic Number = 30

19).

		7
25	10	13

Magic Number =

22).

	9		
15	6	10	3
	7	11	
1			13

Magic Number =

25).

6	12		9
			14
5		16	
10		7	13

Magic Number = 38

17).

12		
	15	
6		

Magic Number = 45

20).

	18	26
14		

Magic Number = 54

23).

13			14
6			5
	7	4	17
	12		10

Magic Number =

26).

		30	
24			18
16	22	20	10
26		6	

Magic Number =

18).

11		19
	17	

Magic Number = 39

21).

		24
27		23
		28

Magic Number =

24).

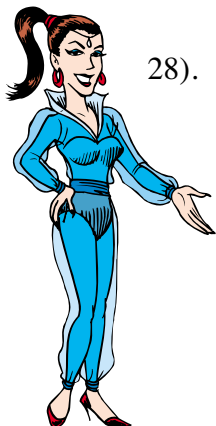
		9	20
19	10	14	
	11		6
5		12	

Magic Number =

27).

7		16	21
		11	
		22	15
18			12

Magic Number = 58



28).

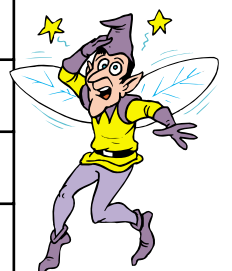
	2	25	18	11
3	21			10
22	20	13	6	4
16		7		23
15	8		24	

Magic Number =

29).

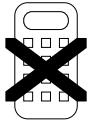
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13	17	16		
	23	2		4

Magic Number =



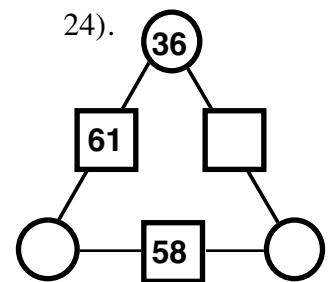
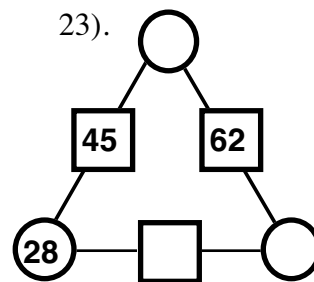
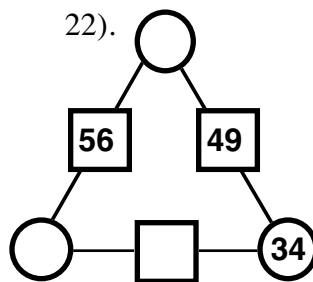
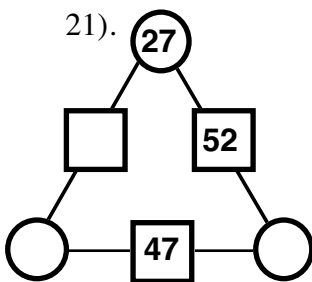
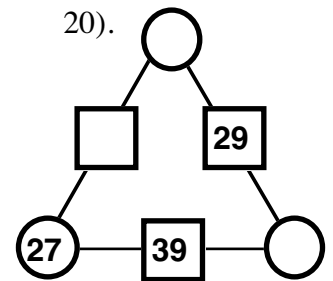
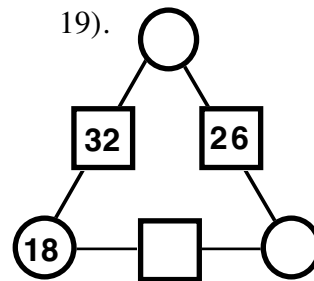
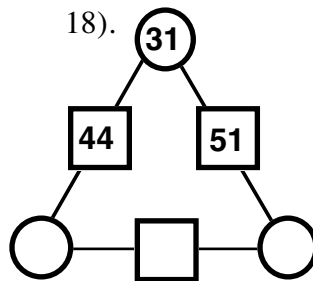
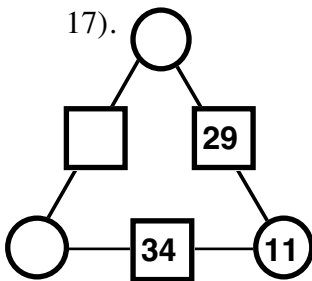
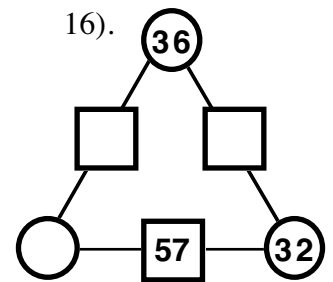
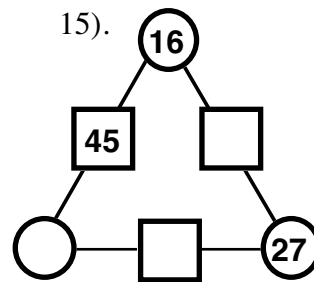
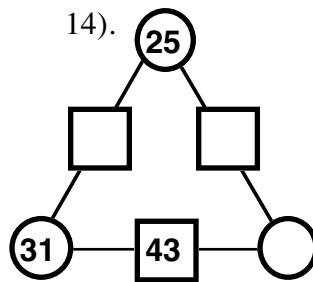
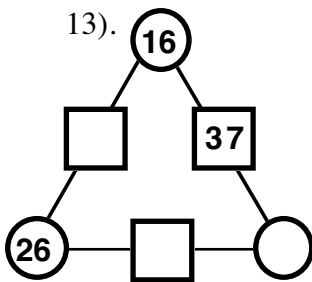
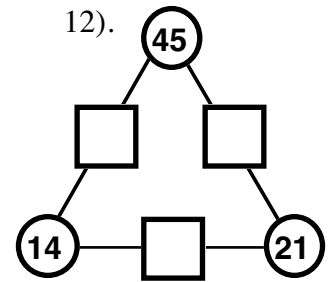
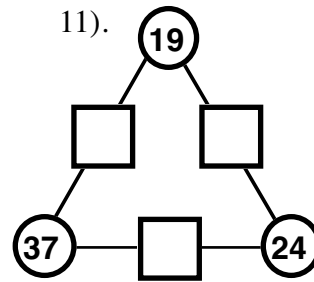
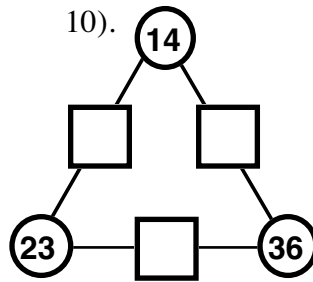
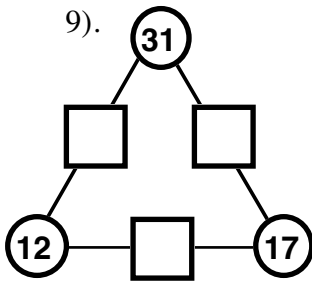
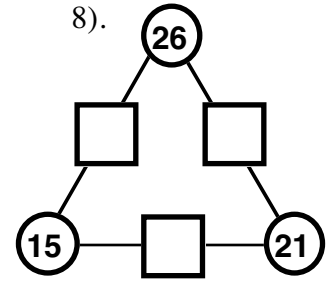
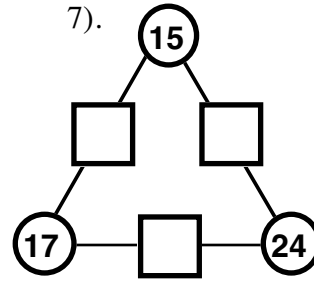
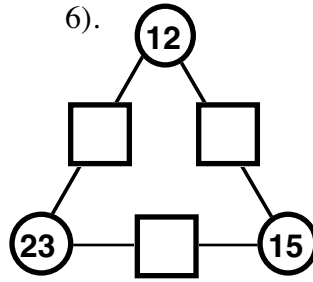
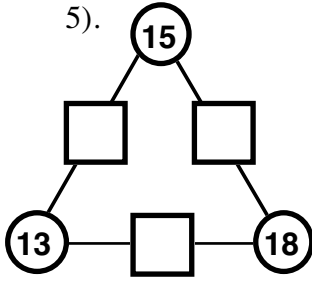
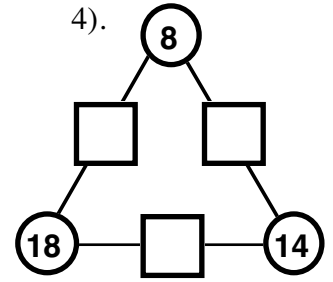
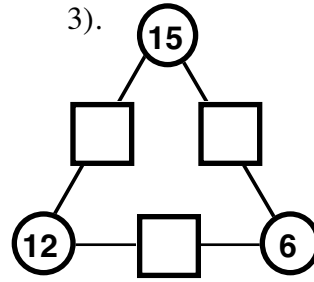
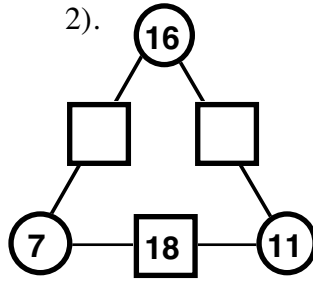
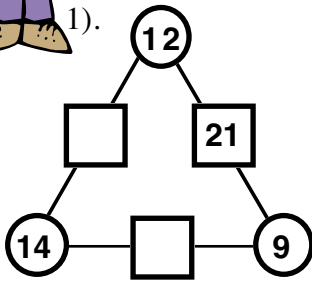


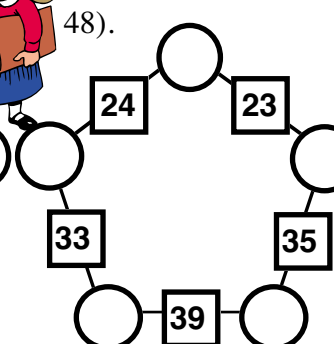
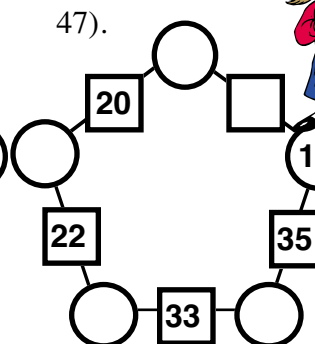
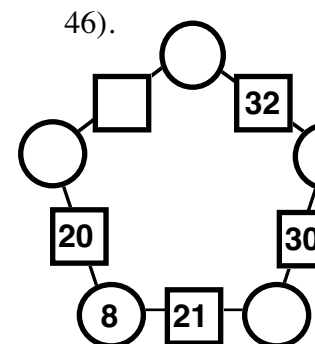
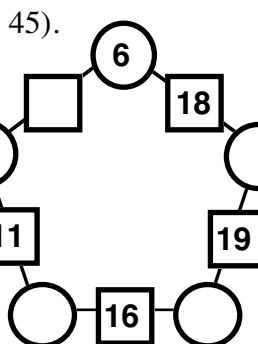
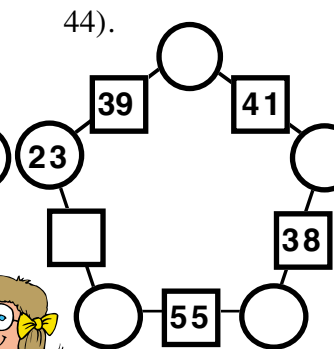
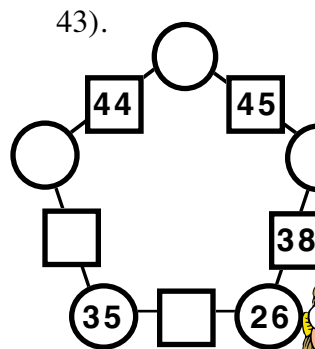
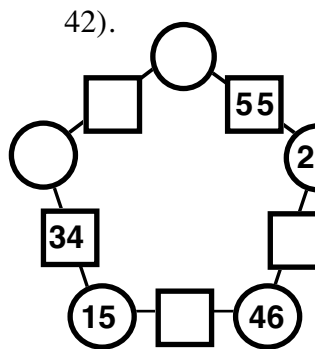
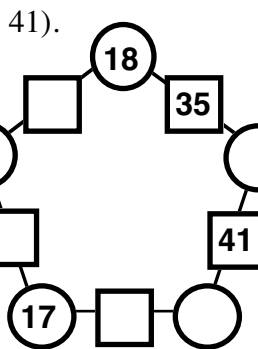
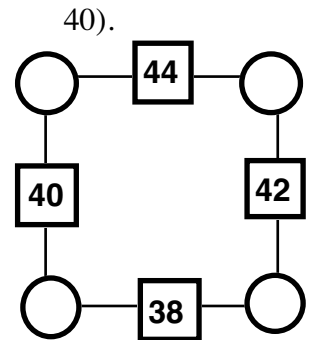
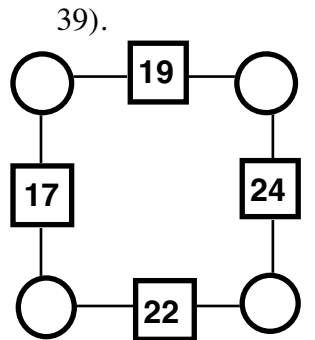
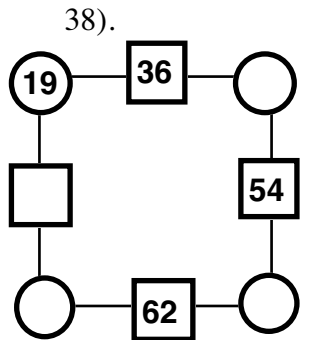
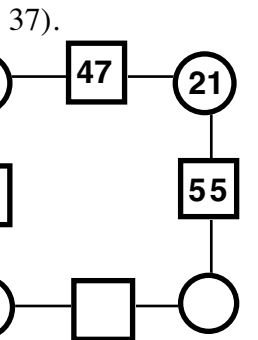
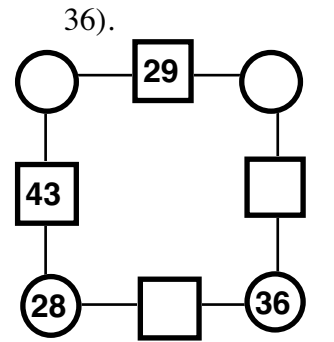
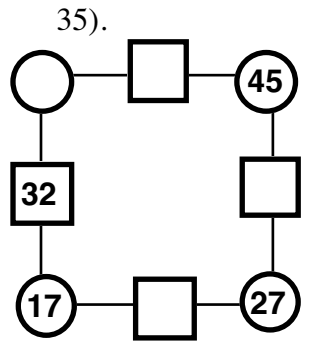
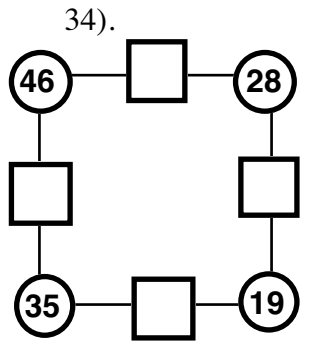
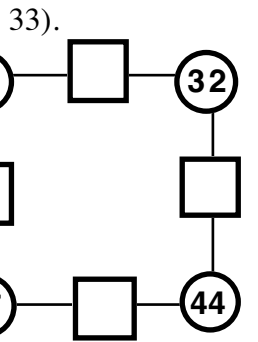
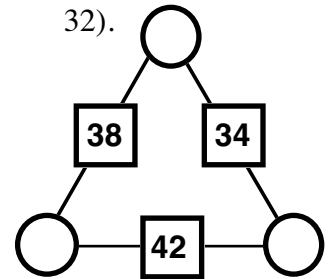
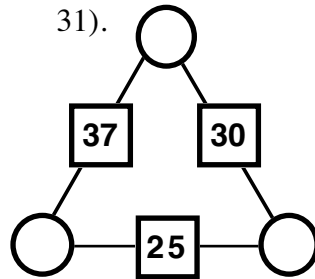
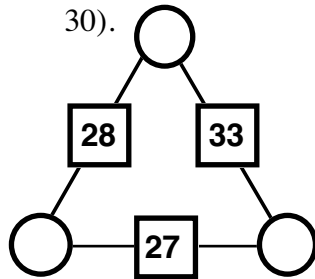
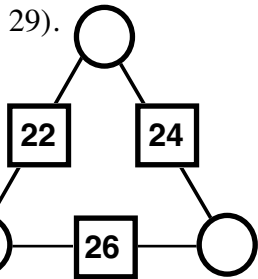
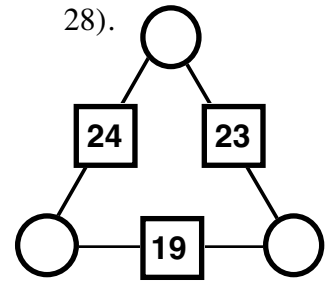
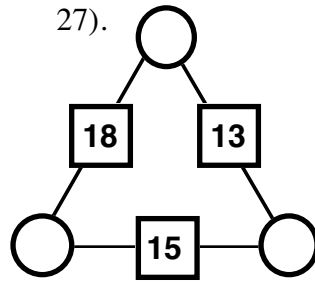
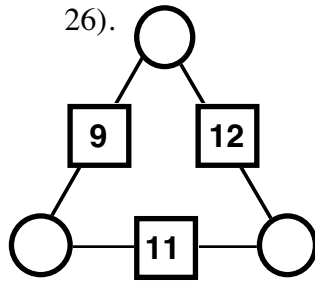
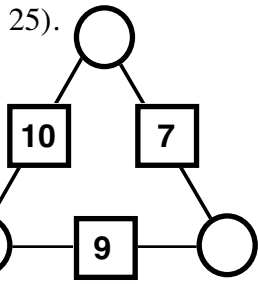
Addon-agons.



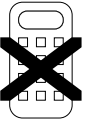
Rule: The numbers in the two circles **add up** to the number in the squares **between them**.

Copy and complete the diagrams. The first two have been partly done to help you.



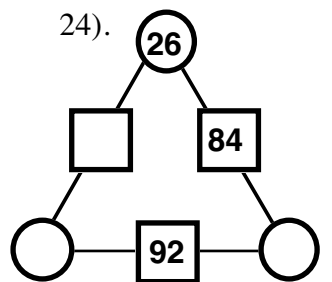
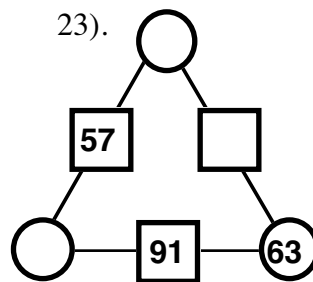
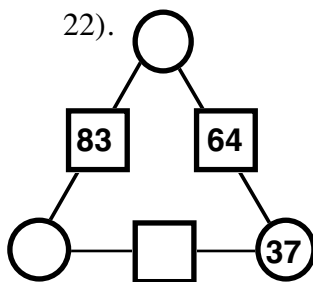
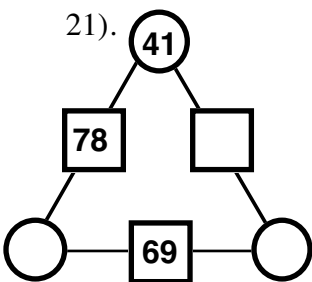
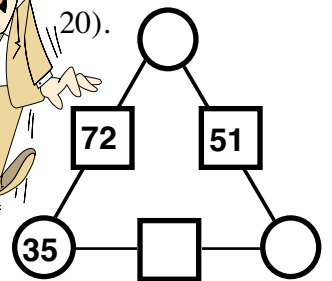
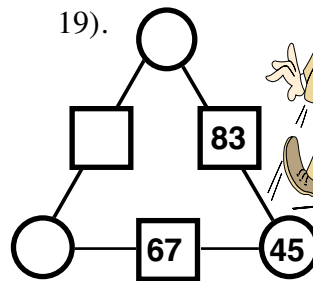
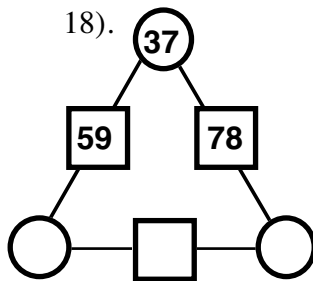
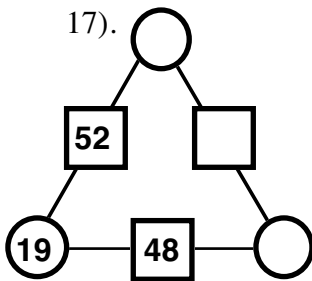
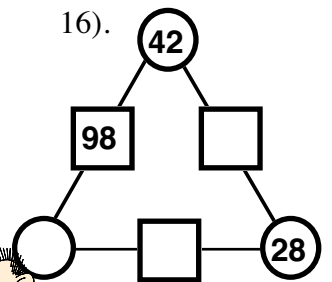
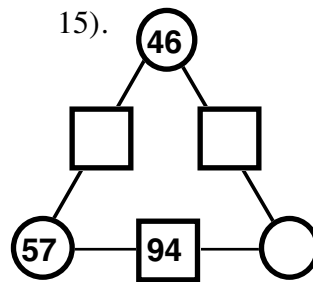
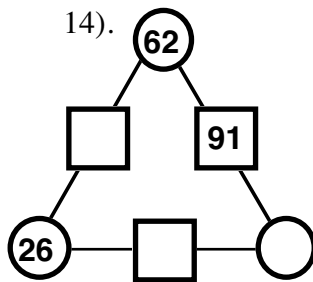
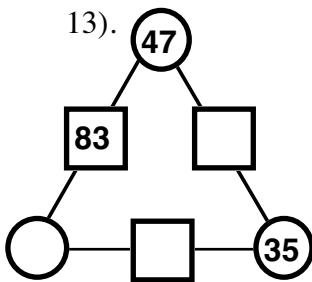
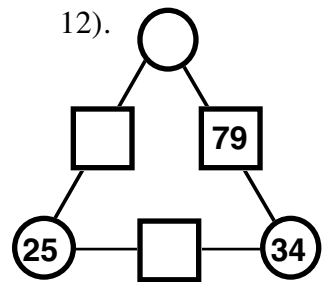
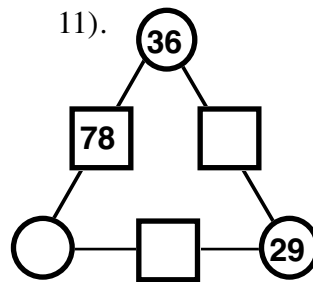
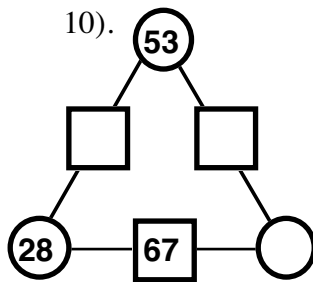
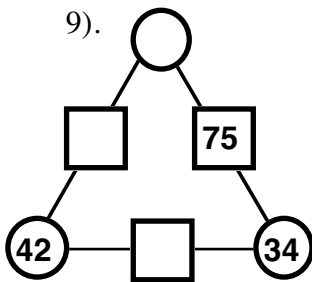
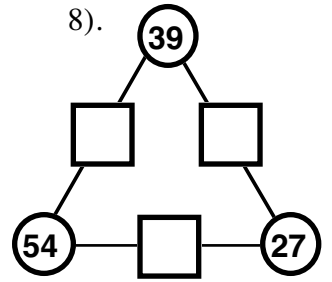
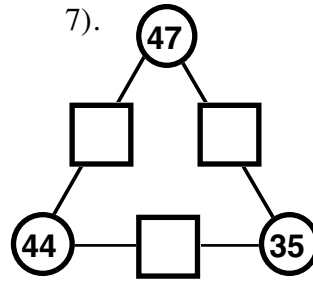
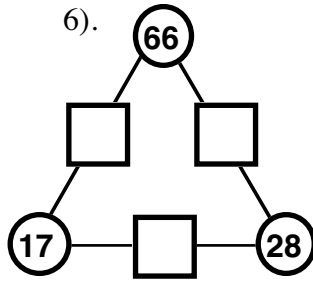
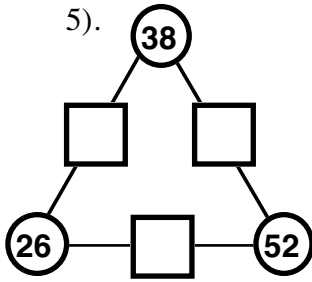
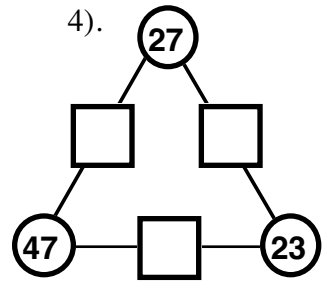
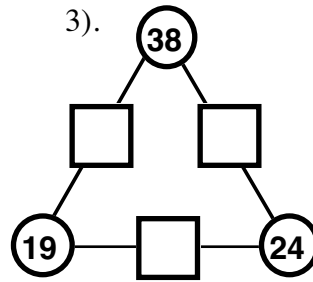
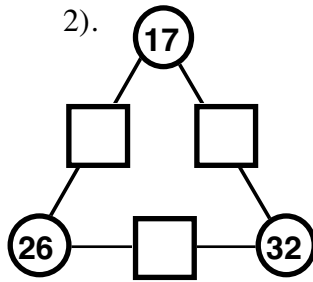
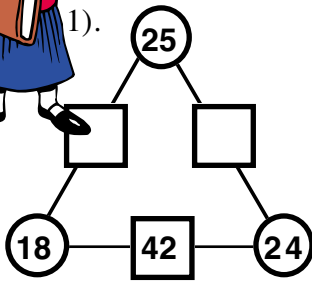


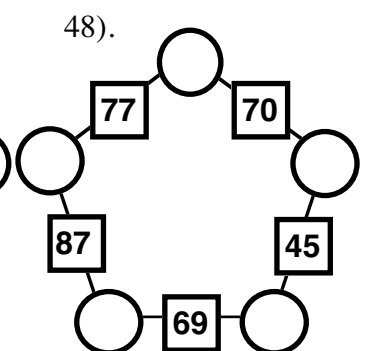
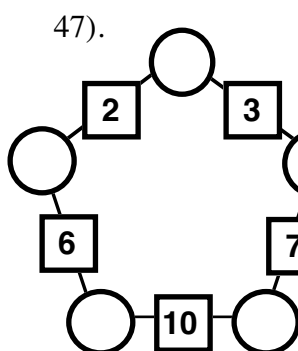
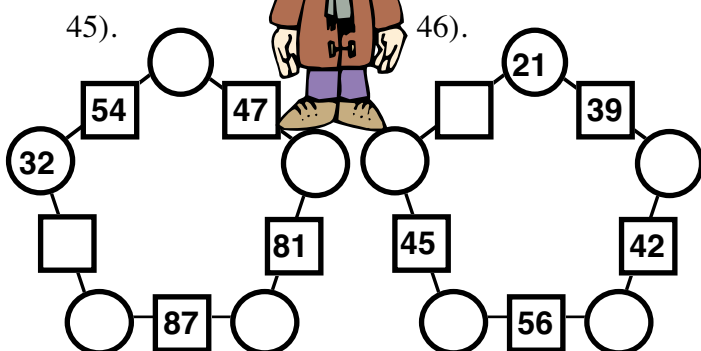
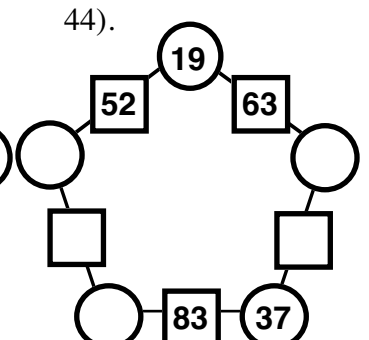
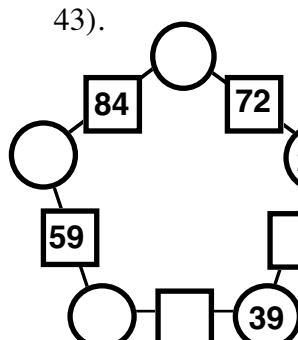
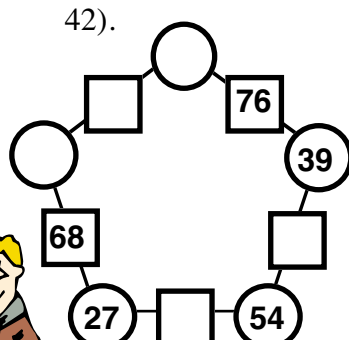
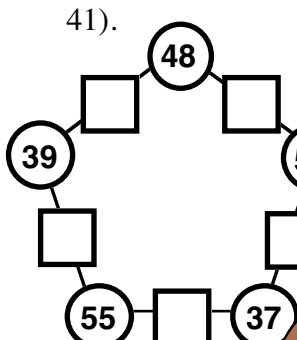
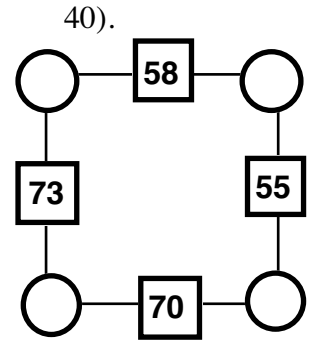
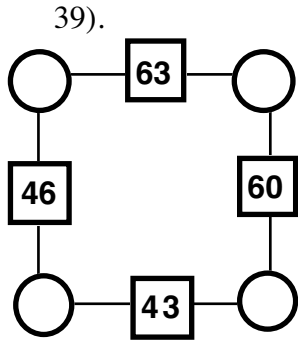
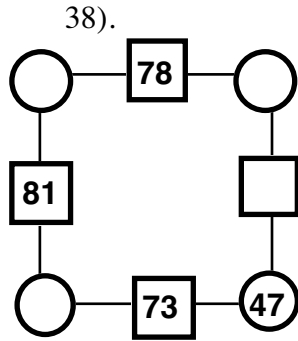
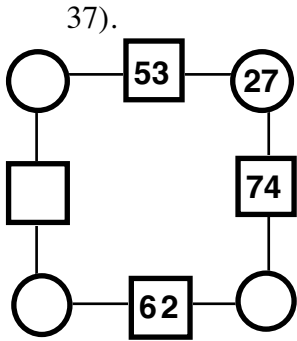
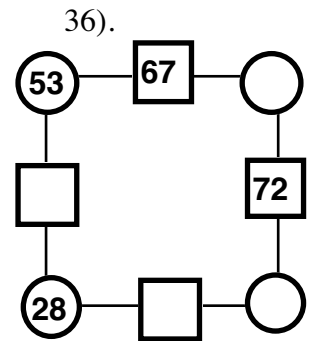
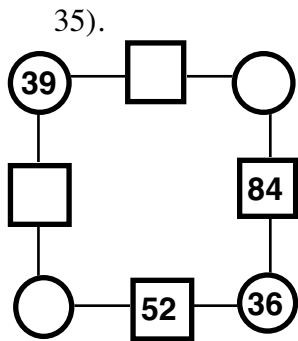
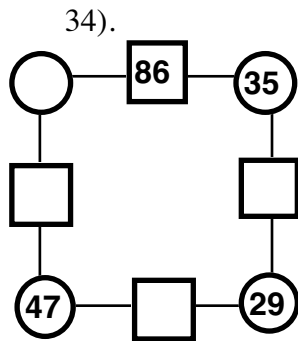
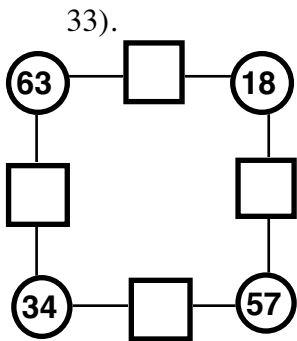
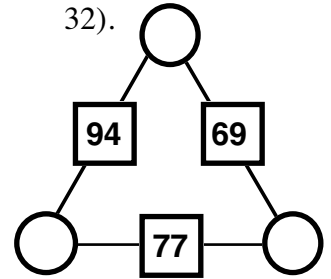
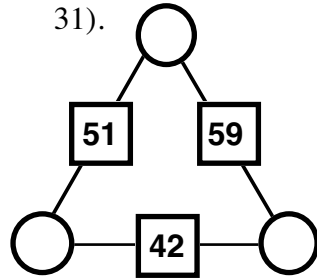
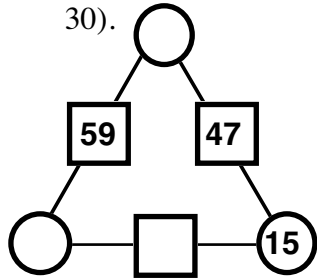
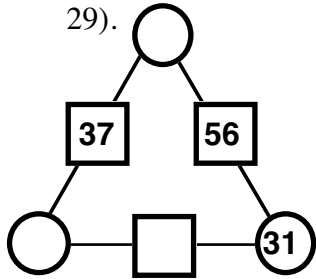
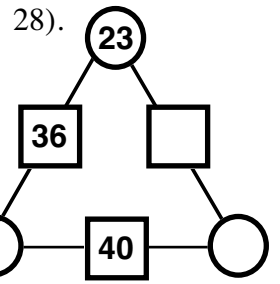
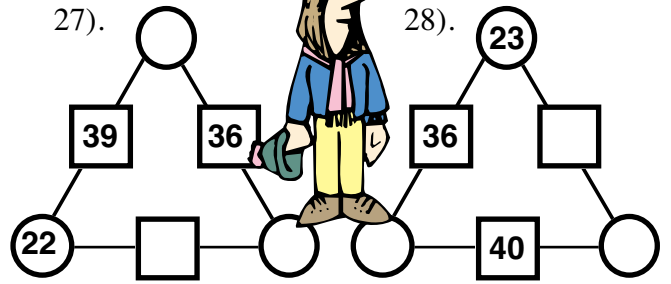
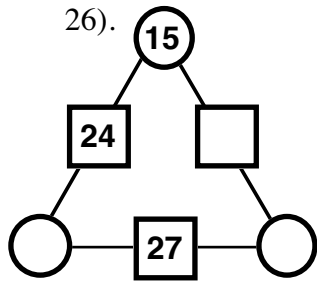
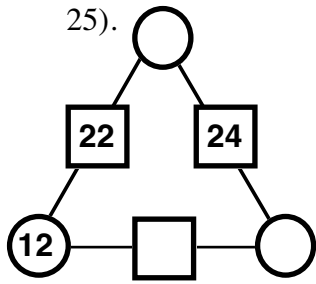
Harder Addon-ags.



Rule: The numbers in the two circles **add up** to the number in the squares **between them**.

Copy and complete the diagrams. The first one has been partly done to help you.







Two-digit Addition.

1). $\begin{array}{r} 14 \\ \underline{23} + \\ \hline \end{array}$

13). $\begin{array}{r} 54 \\ \underline{33} + \\ \hline \end{array}$

25). $\begin{array}{r} 54 \\ \underline{26} + \\ \hline \end{array}$

37). $\begin{array}{r} 45 \\ \underline{67} + \\ \hline \end{array}$

49). $\begin{array}{r} 78 \\ \underline{88} + \\ \hline \end{array}$

2). $\begin{array}{r} 25 \\ \underline{12} + \\ \hline \end{array}$

14). $\begin{array}{r} 62 \\ \underline{36} + \\ \hline \end{array}$

26). $\begin{array}{r} 39 \\ \underline{47} + \\ \hline \end{array}$

38). $\begin{array}{r} 78 \\ \underline{67} + \\ \hline \end{array}$

50). $\begin{array}{r} 65 \\ \underline{98} + \\ \hline \end{array}$

3). $\begin{array}{r} 21 \\ \underline{37} + \\ \hline \end{array}$

15). $\begin{array}{r} 67 \\ \underline{20} + \\ \hline \end{array}$

27). $\begin{array}{r} 26 \\ \underline{37} + \\ \hline \end{array}$

39). $\begin{array}{r} 33 \\ \underline{87} + \\ \hline \end{array}$

51). $\begin{array}{r} 67 \\ \underline{96} + \\ \hline \end{array}$

4). $\begin{array}{r} 33 \\ \underline{15} + \\ \hline \end{array}$

16). $\begin{array}{r} 40 \\ \underline{30} + \\ \hline \end{array}$

28). $\begin{array}{r} 46 \\ \underline{46} + \\ \hline \end{array}$

40). $\begin{array}{r} 89 \\ \underline{76} + \\ \hline \end{array}$

52). $\begin{array}{r} 98 \\ \underline{53} + \\ \hline \end{array}$

5). $\begin{array}{r} 26 \\ \underline{22} + \\ \hline \end{array}$

17). $\begin{array}{r} 86 \\ \underline{13} + \\ \hline \end{array}$

29). $\begin{array}{r} 17 \\ \underline{55} + \\ \hline \end{array}$

41). $\begin{array}{r} 34 \\ \underline{52} + \\ \hline \end{array}$

53). $\begin{array}{r} 47 \\ \underline{83} + \\ \hline \end{array}$

6). $\begin{array}{r} 34 \\ \underline{23} + \\ \hline \end{array}$

18). $\begin{array}{r} 73 \\ \underline{24} + \\ \hline \end{array}$

30). $\begin{array}{r} 43 \\ \underline{28} + \\ \hline \end{array}$

42). $\begin{array}{r} 74 \\ \underline{65} + \\ \hline \end{array}$

54). $\begin{array}{r} 87 \\ \underline{92} + \\ \hline \end{array}$

7). $\begin{array}{r} 18 \\ \underline{41} + \\ \hline \end{array}$

19). $\begin{array}{r} 67 \\ \underline{41} + \\ \hline \end{array}$

31). $\begin{array}{r} 58 \\ \underline{18} + \\ \hline \end{array}$

43). $\begin{array}{r} 36 \\ \underline{55} + \\ \hline \end{array}$

55). $\begin{array}{r} 74 \\ \underline{88} + \\ \hline \end{array}$

8). $\begin{array}{r} 27 \\ \underline{32} + \\ \hline \end{array}$

20). $\begin{array}{r} 56 \\ \underline{73} + \\ \hline \end{array}$

32). $\begin{array}{r} 71 \\ \underline{19} + \\ \hline \end{array}$

44). $\begin{array}{r} 86 \\ \underline{17} + \\ \hline \end{array}$

56). $\begin{array}{r} 68 \\ \underline{94} + \\ \hline \end{array}$

9). $\begin{array}{r} 20 \\ \underline{39} + \\ \hline \end{array}$

21). $\begin{array}{r} 25 \\ \underline{36} + \\ \hline \end{array}$

33). $\begin{array}{r} 42 \\ \underline{29} + \\ \hline \end{array}$

45). $\begin{array}{r} 13 \\ \underline{94} + \\ \hline \end{array}$

57). $\begin{array}{r} 97 \\ \underline{85} + \\ \hline \end{array}$

10). $\begin{array}{r} 28 \\ \underline{31} + \\ \hline \end{array}$

22). $\begin{array}{r} 17 \\ \underline{35} + \\ \hline \end{array}$

34). $\begin{array}{r} 67 \\ \underline{13} + \\ \hline \end{array}$

46). $\begin{array}{r} 27 \\ \underline{93} + \\ \hline \end{array}$

58). $\begin{array}{r} 69 \\ \underline{78} + \\ \hline \end{array}$

11). $\begin{array}{r} 17 \\ \underline{52} + \\ \hline \end{array}$

23). $\begin{array}{r} 29 \\ \underline{34} + \\ \hline \end{array}$

35). $\begin{array}{r} 29 \\ \underline{49} + \\ \hline \end{array}$

47). $\begin{array}{r} 37 \\ \underline{57} + \\ \hline \end{array}$

59). $\begin{array}{r} 77 \\ \underline{83} + \\ \hline \end{array}$

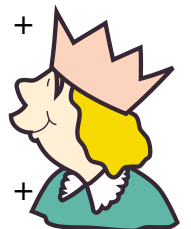
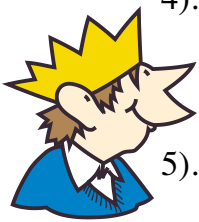
12). $\begin{array}{r} 45 \\ \underline{34} + \\ \hline \end{array}$

24). $\begin{array}{r} 33 \\ \underline{28} + \\ \hline \end{array}$

36). $\begin{array}{r} 58 \\ \underline{35} + \\ \hline \end{array}$

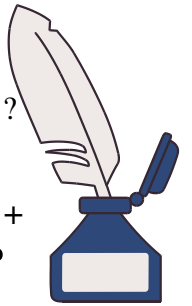
48). $\begin{array}{r} 89 \\ \underline{31} + \\ \hline \end{array}$

60). $\begin{array}{r} 97 \\ \underline{96} + \\ \hline \end{array}$



Ink Blots (2-digit addition).

Sally has spilt some ink over her homework. Can you help her write it out correctly ?



1). $\begin{array}{r} 13 \\ + 27 \\ \hline \end{array}$

13). $\begin{array}{r} 33 \\ + 97 \\ \hline \end{array}$

25). $\begin{array}{r} 26 \\ + 70 \\ \hline \end{array}$

37). $\begin{array}{r} 46 \\ + 113 \\ \hline \end{array}$

49). $\begin{array}{r} 68 \\ + 88 \\ \hline \end{array}$

2). $\begin{array}{r} 22 \\ + 35 \\ \hline \end{array}$

14). $\begin{array}{r} 52 \\ + 38 \\ \hline \end{array}$

26). $\begin{array}{r} 29 \\ + 43 \\ \hline \end{array}$

38). $\begin{array}{r} 47 \\ + 50 \\ \hline 134 \\ \hline \end{array}$

50). $\begin{array}{r} 50 \\ + 98 \\ \hline 5 \\ \hline \end{array}$

3). $\begin{array}{r} 21 \\ + 10 \\ \hline 37 \\ \hline \end{array}$

15). $\begin{array}{r} 7 \\ + 20 \\ \hline 67 \\ \hline \end{array}$

27). $\begin{array}{r} 27 \\ + 43 \\ \hline \end{array}$

39). $\begin{array}{r} 47 \\ + 87 \\ \hline 80 \\ \hline \end{array}$

51). $\begin{array}{r} 7 \\ + 90 \\ \hline 168 \\ \hline \end{array}$

4). $\begin{array}{r} 13 \\ + 10 \\ \hline 24 \\ \hline \end{array}$

16). $\begin{array}{r} 50 \\ + 90 \\ \hline 0 \\ \hline \end{array}$

28). $\begin{array}{r} 36 \\ + 36 \\ \hline 2 \\ \hline \end{array}$

40). $\begin{array}{r} 87 \\ + 78 \\ \hline 7 \\ \hline \end{array}$

52). $\begin{array}{r} 93 \\ + 90 \\ \hline 181 \\ \hline \end{array}$

5). $\begin{array}{r} 22 \\ + 23 \\ \hline 45 \\ \hline \end{array}$

17). $\begin{array}{r} 66 \\ + 90 \\ \hline 39 \\ \hline \end{array}$

29). $\begin{array}{r} 76 \\ + 60 \\ \hline 82 \\ \hline \end{array}$

41). $\begin{array}{r} 44 \\ + 52 \\ \hline 96 \\ \hline \end{array}$

53). $\begin{array}{r} 93 \\ + 27 \\ \hline 140 \\ \hline \end{array}$

6). $\begin{array}{r} 14 \\ + 34 \\ \hline 48 \\ \hline \end{array}$

18). $\begin{array}{r} 63 \\ + 84 \\ \hline \end{array}$

30). $\begin{array}{r} 53 \\ + 28 \\ \hline 81 \\ \hline \end{array}$

42). $\begin{array}{r} 77 \\ + 15 \\ \hline \end{array}$

54). $\begin{array}{r} 89 \\ + 99 \\ \hline 6 \\ \hline \end{array}$

7). $\begin{array}{r} 18 \\ + 31 \\ \hline 49 \\ \hline \end{array}$

19). $\begin{array}{r} 51 \\ + 67 \\ \hline 118 \\ \hline \end{array}$

31). $\begin{array}{r} 58 \\ + 28 \\ \hline 80 \\ \hline \end{array}$

43). $\begin{array}{r} 55 \\ + 66 \\ \hline 121 \\ \hline \end{array}$

55). $\begin{array}{r} 74 \\ + 85 \\ \hline \end{array}$

8). $\begin{array}{r} 27 \\ + 12 \\ \hline 39 \\ \hline \end{array}$

20). $\begin{array}{r} 67 \\ + 42 \\ \hline 109 \\ \hline \end{array}$

32). $\begin{array}{r} 30 \\ + 49 \\ \hline 0 \\ \hline \end{array}$

44). $\begin{array}{r} 53 \\ + 39 \\ \hline 3 \\ \hline \end{array}$

56). $\begin{array}{r} 89 \\ + 90 \\ \hline 172 \\ \hline \end{array}$

9). $\begin{array}{r} 40 \\ + 19 \\ \hline 59 \\ \hline \end{array}$

21). $\begin{array}{r} 45 \\ + 20 \\ \hline 41 \\ \hline \end{array}$

33). $\begin{array}{r} 56 \\ + 29 \\ \hline 80 \\ \hline \end{array}$

45). $\begin{array}{r} 30 \\ + 94 \\ \hline 27 \\ \hline \end{array}$

57). $\begin{array}{r} 77 \\ + 88 \\ \hline 180 \\ \hline \end{array}$

10). $\begin{array}{r} 26 \\ + 31 \\ \hline 50 \\ \hline \end{array}$

22). $\begin{array}{r} 15 \\ + 25 \\ \hline 42 \\ \hline \end{array}$

34). $\begin{array}{r} 47 \\ + 23 \\ \hline \end{array}$

46). $\begin{array}{r} 16 \\ + 33 \\ \hline 100 \\ \hline \end{array}$

58). $\begin{array}{r} 79 \\ + 78 \\ \hline \end{array}$

11). $\begin{array}{r} 22 \\ + 47 \\ \hline 69 \\ \hline \end{array}$

23). $\begin{array}{r} 24 \\ + 33 \\ \hline \end{array}$

35). $\begin{array}{r} 49 \\ + 40 \\ \hline 8 \\ \hline \end{array}$

47). $\begin{array}{r} 37 \\ + 47 \\ \hline 84 \\ \hline \end{array}$

59). $\begin{array}{r} 93 \\ + 67 \\ \hline 160 \\ \hline \end{array}$

12). $\begin{array}{r} 43 \\ + 34 \\ \hline \end{array}$

24). $\begin{array}{r} 33 \\ + 17 \\ \hline 51 \\ \hline \end{array}$

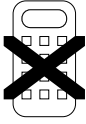
36). $\begin{array}{r} 48 \\ + 29 \\ \hline 120 \\ \hline \end{array}$

48). $\begin{array}{r} 60 \\ + 31 \\ \hline 100 \\ \hline \end{array}$

60). $\begin{array}{r} 90 \\ + 88 \\ \hline 193 \\ \hline \end{array}$



Two-digit Subtraction.



1). $\begin{array}{r} 25 \\ \underline{12} \\ \hline \end{array}$

2). $\begin{array}{r} 29 \\ \underline{13} \\ \hline \end{array}$

3). $\begin{array}{r} 36 \\ \underline{14} \\ \hline \end{array}$

4). $\begin{array}{r} 33 \\ \underline{11} \\ \hline \end{array}$

5). $\begin{array}{r} 26 \\ \underline{4} \\ \hline \end{array}$

6). $\begin{array}{r} 34 \\ \underline{23} \\ \hline \end{array}$

7). $\begin{array}{r} 18 \\ \underline{6} \\ \hline \end{array}$

8). $\begin{array}{r} 47 \\ \underline{22} \\ \hline \end{array}$

9). $\begin{array}{r} 50 \\ \underline{20} \\ \hline \end{array}$

10). $\begin{array}{r} 58 \\ \underline{21} \\ \hline \end{array}$

11). $\begin{array}{r} 64 \\ \underline{32} \\ \hline \end{array}$

12). $\begin{array}{r} 45 \\ \underline{34} \\ \hline \end{array}$

13). $\begin{array}{r} 54 \\ \underline{34} \\ \hline \end{array}$

14). $\begin{array}{r} 62 \\ \underline{31} \\ \hline \end{array}$

15). $\begin{array}{r} 67 \\ \underline{20} \\ \hline \end{array}$

16). $\begin{array}{r} 49 \\ \underline{37} \\ \hline \end{array}$

17). $\begin{array}{r} 88 \\ \underline{15} \\ \hline \end{array}$

18). $\begin{array}{r} 77 \\ \underline{34} \\ \hline \end{array}$

19). $\begin{array}{r} 67 \\ \underline{41} \\ \hline \end{array}$

20). $\begin{array}{r} 96 \\ \underline{53} \\ \hline \end{array}$

21). $\begin{array}{r} 25 \\ \underline{16} \\ \hline \end{array}$

22). $\begin{array}{r} 27 \\ \underline{18} \\ \hline \end{array}$

23). $\begin{array}{r} 21 \\ \underline{13} \\ \hline \end{array}$

24). $\begin{array}{r} 35 \\ \underline{18} \\ \hline \end{array}$

25). $\begin{array}{r} 54 \\ \underline{26} \\ \hline \end{array}$

26). $\begin{array}{r} 32 \\ \underline{24} \\ \hline \end{array}$

27). $\begin{array}{r} 56 \\ \underline{39} \\ \hline \end{array}$

28). $\begin{array}{r} 76 \\ \underline{38} \\ \hline \end{array}$

29). $\begin{array}{r} 83 \\ \underline{36} \\ \hline \end{array}$

30). $\begin{array}{r} 43 \\ \underline{18} \\ \hline \end{array}$

31). $\begin{array}{r} 50 \\ \underline{18} \\ \hline \end{array}$

32). $\begin{array}{r} 71 \\ \underline{9} \\ \hline \end{array}$

33). $\begin{array}{r} 92 \\ \underline{47} \\ \hline \end{array}$

34). $\begin{array}{r} 67 \\ \underline{18} \\ \hline \end{array}$

35). $\begin{array}{r} 65 \\ \underline{49} \\ \hline \end{array}$

36). $\begin{array}{r} 98 \\ \underline{59} \\ \hline \end{array}$

37). $\begin{array}{r} 87 \\ \underline{68} \\ \hline \end{array}$

38). $\begin{array}{r} 72 \\ \underline{37} \\ \hline \end{array}$

39). $\begin{array}{r} 73 \\ \underline{27} \\ \hline \end{array}$

40). $\begin{array}{r} 80 \\ \underline{16} \\ \hline \end{array}$

41). $\begin{array}{r} 74 \\ \underline{26} \\ \hline \end{array}$

42). $\begin{array}{r} 74 \\ \underline{65} \\ \hline \end{array}$

43). $\begin{array}{r} 96 \\ \underline{55} \\ \hline \end{array}$

44). $\begin{array}{r} 99 \\ \underline{17} \\ \hline \end{array}$

45). $\begin{array}{r} 84 \\ \underline{38} \\ \hline \end{array}$

46). $\begin{array}{r} 93 \\ \underline{17} \\ \hline \end{array}$

47). $\begin{array}{r} 87 \\ \underline{37} \\ \hline \end{array}$

48). $\begin{array}{r} 81 \\ \underline{29} \\ \hline \end{array}$

49). $\begin{array}{r} 78 \\ \underline{19} \\ \hline \end{array}$

50). $\begin{array}{r} 65 \\ \underline{9} \\ \hline \end{array}$

51). $\begin{array}{r} 67 \\ \underline{48} \\ \hline \end{array}$

52). $\begin{array}{r} 98 \\ \underline{89} \\ \hline \end{array}$

53). $\begin{array}{r} 57 \\ \underline{49} \\ \hline \end{array}$

54). $\begin{array}{r} 87 \\ \underline{12} \\ \hline \end{array}$

55). $\begin{array}{r} 74 \\ \underline{45} \\ \hline \end{array}$

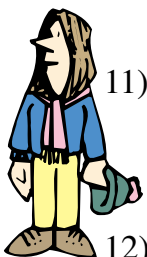
56). $\begin{array}{r} 68 \\ \underline{34} \\ \hline \end{array}$

57). $\begin{array}{r} 91 \\ \underline{25} \\ \hline \end{array}$

58). $\begin{array}{r} 65 \\ \underline{18} \\ \hline \end{array}$

59). $\begin{array}{r} 70 \\ \underline{13} \\ \hline \end{array}$

60). $\begin{array}{r} 97 \\ \underline{28} \\ \hline \end{array}$



Ink Blots (2-digit Subtraction).

James has spilt some ink over his homework. Can you help him write it out correctly ?

1).
$$\begin{array}{r} 24 \\ \underline{1} \\ 2 \end{array}$$

13).
$$\begin{array}{r} 24 \\ \underline{50} \end{array}$$

25).
$$\begin{array}{r} 58 \\ \underline{29} \end{array}$$

37).
$$\begin{array}{r} 38 \\ \underline{49} \end{array}$$

49).
$$\begin{array}{r} 58 \\ \underline{21} \end{array}$$



2).
$$\begin{array}{r} 29 \\ \underline{14} \\ 13 \end{array}$$

14).
$$\begin{array}{r} 42 \\ \underline{31} \\ 20 \end{array}$$

26).
$$\begin{array}{r} 33 \\ \underline{27} \end{array}$$

38).
$$\begin{array}{r} 71 \\ \underline{46} \\ 46 \end{array}$$

50).
$$\begin{array}{r} 75 \\ \underline{66} \end{array}$$

3).
$$\begin{array}{r} 31 \\ \underline{17} \\ 21 \end{array}$$

15).
$$\begin{array}{r} 50 \\ \underline{20} \\ 27 \end{array}$$

27).
$$\begin{array}{r} 42 \\ \underline{31} \\ 15 \end{array}$$

39).
$$\begin{array}{r} 27 \\ \underline{48} \end{array}$$

51).
$$\begin{array}{r} 78 \\ \underline{49} \end{array}$$

4).
$$\begin{array}{r} 7 \\ \underline{1} \\ 23 \end{array}$$

16).
$$\begin{array}{r} 48 \\ \underline{27} \end{array}$$

28).
$$\begin{array}{r} 43 \\ \underline{38} \\ 3 \end{array}$$

40).
$$\begin{array}{r} 30 \\ \underline{13} \\ 4 \end{array}$$

52).
$$\begin{array}{r} 97 \\ \underline{78} \end{array}$$

5).
$$\begin{array}{r} 16 \\ \underline{13} \end{array}$$

17).
$$\begin{array}{r} 46 \\ \underline{11} \\ 7 \end{array}$$

29).
$$\begin{array}{r} 39 \\ \underline{46} \end{array}$$

41).
$$\begin{array}{r} 60 \\ \underline{29} \\ 5 \end{array}$$

53).
$$\begin{array}{r} 68 \\ \underline{29} \end{array}$$

6).
$$\begin{array}{r} 24 \\ \underline{10} \end{array}$$

18).
$$\begin{array}{r} 79 \\ \underline{55} \end{array}$$

30).
$$\begin{array}{r} 42 \\ \underline{15} \end{array}$$

42).
$$\begin{array}{r} 74 \\ \underline{68} \end{array}$$

54).
$$\begin{array}{r} 77 \\ \underline{2} \\ 6 \end{array}$$

7).
$$\begin{array}{r} 15 \\ \underline{5} \\ 4 \end{array}$$

19).
$$\begin{array}{r} 31 \\ \underline{37} \end{array}$$

31).
$$\begin{array}{r} 60 \\ \underline{17} \\ 43 \end{array}$$

43).
$$\begin{array}{r} 95 \\ \underline{31} \\ 3 \end{array}$$

55).
$$\begin{array}{r} 73 \\ \underline{38} \end{array}$$

8).
$$\begin{array}{r} 42 \\ \underline{25} \\ 2 \end{array}$$

20).
$$\begin{array}{r} 94 \\ \underline{43} \\ 6 \end{array}$$

32).
$$\begin{array}{r} 73 \\ \underline{9} \\ 64 \end{array}$$

44).
$$\begin{array}{r} 55 \\ \underline{1} \\ 77 \end{array}$$

56).
$$\begin{array}{r} 84 \\ \underline{34} \\ 4 \end{array}$$

9).
$$\begin{array}{r} 60 \\ \underline{10} \\ 4 \end{array}$$

21).
$$\begin{array}{r} 23 \\ \underline{6} \\ 0 \end{array}$$

33).
$$\begin{array}{r} 92 \\ \underline{57} \end{array}$$

45).
$$\begin{array}{r} 84 \\ \underline{48} \end{array}$$

57).
$$\begin{array}{r} 92 \\ \underline{5} \\ 6 \end{array}$$

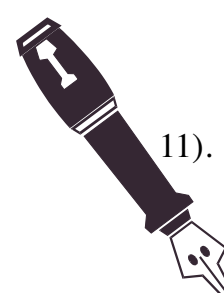
10).
$$\begin{array}{r} 18 \\ \underline{2} \\ 25 \end{array}$$

22).
$$\begin{array}{r} 22 \\ \underline{13} \end{array}$$

34).
$$\begin{array}{r} 17 \\ \underline{1} \\ 28 \end{array}$$

46).
$$\begin{array}{r} 92 \\ \underline{19} \end{array}$$

58).
$$\begin{array}{r} 68 \\ \underline{48} \\ 35 \end{array}$$



11).
$$\begin{array}{r} 54 \\ \underline{22} \end{array}$$

23).
$$\begin{array}{r} 43 \\ \underline{1} \\ 08 \end{array}$$

35).
$$\begin{array}{r} 66 \\ \underline{29} \\ 3 \end{array}$$

47).
$$\begin{array}{r} 67 \\ \underline{7} \\ 40 \end{array}$$

59).
$$\begin{array}{r} 14 \\ \underline{76} \end{array}$$

12).
$$\begin{array}{r} 65 \\ \underline{31} \end{array}$$

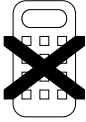
24).
$$\begin{array}{r} 46 \\ \underline{1} \\ 18 \end{array}$$

36).
$$\begin{array}{r} 90 \\ \underline{39} \\ 9 \end{array}$$

48).
$$\begin{array}{r} 39 \\ \underline{52} \end{array}$$

60).
$$\begin{array}{r} 45 \\ \underline{3} \\ 57 \end{array}$$

Three-digit Addition.



1). $\begin{array}{r} 146 \\ 231 \\ \hline \end{array} +$

13). $\begin{array}{r} 584 \\ 330 \\ \hline \end{array} +$

25). $\begin{array}{r} 546 \\ 254 \\ \hline \end{array} +$

37). $\begin{array}{r} 406 \\ 674 \\ \hline \end{array} +$

49). $\begin{array}{r} 713 \\ 887 \\ \hline \end{array} +$

2). $\begin{array}{r} 254 \\ 125 \\ \hline \end{array} +$

14). $\begin{array}{r} 654 \\ 353 \\ \hline \end{array} +$

26). $\begin{array}{r} 396 \\ 475 \\ \hline \end{array} +$

38). $\begin{array}{r} 787 \\ 616 \\ \hline \end{array} +$

50). $\begin{array}{r} 656 \\ 388 \\ \hline \end{array} +$

3). $\begin{array}{r} 214 \\ 372 \\ \hline \end{array} +$

15). $\begin{array}{r} 676 \\ 293 \\ \hline \end{array} +$

27). $\begin{array}{r} 264 \\ 372 \\ \hline \end{array} +$

39). $\begin{array}{r} 336 \\ 829 \\ \hline \end{array} +$

51). $\begin{array}{r} 635 \\ 966 \\ \hline \end{array} +$

4). $\begin{array}{r} 362 \\ 127 \\ \hline \end{array} +$

16). $\begin{array}{r} 467 \\ 328 \\ \hline \end{array} +$

28). $\begin{array}{r} 465 \\ 465 \\ \hline \end{array} +$

40). $\begin{array}{r} 825 \\ 767 \\ \hline \end{array} +$

52). $\begin{array}{r} 473 \\ 527 \\ \hline \end{array} +$

5). $\begin{array}{r} 267 \\ 220 \\ \hline \end{array} +$

17). $\begin{array}{r} 865 \\ 194 \\ \hline \end{array} +$

29). $\begin{array}{r} 179 \\ 550 \\ \hline \end{array} +$

41). $\begin{array}{r} 643 \\ 575 \\ \hline \end{array} +$

53). $\begin{array}{r} 470 \\ 639 \\ \hline \end{array} +$

6). $\begin{array}{r} 347 \\ 234 \\ \hline \end{array} +$

18). $\begin{array}{r} 767 \\ 289 \\ \hline \end{array} +$

30). $\begin{array}{r} 436 \\ 289 \\ \hline \end{array} +$

42). $\begin{array}{r} 782 \\ 656 \\ \hline \end{array} +$

54). $\begin{array}{r} 875 \\ 924 \\ \hline \end{array} +$

7). $\begin{array}{r} 156 \\ 416 \\ \hline \end{array} +$

19). $\begin{array}{r} 674 \\ 348 \\ \hline \end{array} +$

31). $\begin{array}{r} 548 \\ 721 \\ \hline \end{array} +$

43). $\begin{array}{r} 466 \\ 553 \\ \hline \end{array} +$

55). $\begin{array}{r} 747 \\ 882 \\ \hline \end{array} +$

8). $\begin{array}{r} 278 \\ 327 \\ \hline \end{array} +$

20). $\begin{array}{r} 563 \\ 259 \\ \hline \end{array} +$

32). $\begin{array}{r} 710 \\ 619 \\ \hline \end{array} +$

44). $\begin{array}{r} 197 \\ 970 \\ \hline \end{array} +$

56). $\begin{array}{r} 685 \\ 949 \\ \hline \end{array} +$

9). $\begin{array}{r} 208 \\ 392 \\ \hline \end{array} +$

21). $\begin{array}{r} 259 \\ 361 \\ \hline \end{array} +$

33). $\begin{array}{r} 425 \\ 673 \\ \hline \end{array} +$

45). $\begin{array}{r} 172 \\ 945 \\ \hline \end{array} +$

57). $\begin{array}{r} 976 \\ 859 \\ \hline \end{array} +$

10). $\begin{array}{r} 289 \\ 318 \\ \hline \end{array} +$

22). $\begin{array}{r} 179 \\ 361 \\ \hline \end{array} +$

34). $\begin{array}{r} 672 \\ 827 \\ \hline \end{array} +$

46). $\begin{array}{r} 274 \\ 939 \\ \hline \end{array} +$

58). $\begin{array}{r} 697 \\ 784 \\ \hline \end{array} +$

11). $\begin{array}{r} 175 \\ 564 \\ \hline \end{array} +$

23). $\begin{array}{r} 298 \\ 306 \\ \hline \end{array} +$

35). $\begin{array}{r} 704 \\ 893 \\ \hline \end{array} +$

47). $\begin{array}{r} 697 \\ 757 \\ \hline \end{array} +$

59). $\begin{array}{r} 775 \\ 827 \\ \hline \end{array} +$

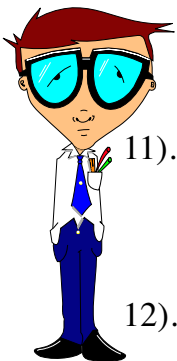
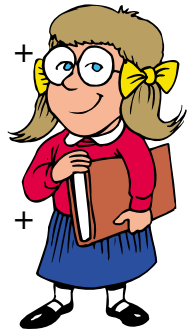
12). $\begin{array}{r} 482 \\ 346 \\ \hline \end{array} +$

24). $\begin{array}{r} 337 \\ 288 \\ \hline \end{array} +$

36). $\begin{array}{r} 544 \\ 658 \\ \hline \end{array} +$

48). $\begin{array}{r} 894 \\ 317 \\ \hline \end{array} +$

60). $\begin{array}{r} 978 \\ 965 \\ \hline \end{array} +$



Ink Blots (3-digit addition).

Lynne has spilt some ink over her homework. Can you help her write it out correctly ?

1).
$$\begin{array}{r} 16\blacksquare \\ \blacksquare4 + \\ \hline 296 \end{array}$$

13).
$$\begin{array}{r} 2\blacksquare\blacksquare \\ \blacksquare30 + \\ \hline 617 \end{array}$$

25).
$$\begin{array}{r} \blacksquare7\blacksquare \\ 26\blacksquare + \\ \hline 708 \end{array}$$

37).
$$\begin{array}{r} 4\blacksquare\blacksquare \\ 173 + \\ \hline \blacksquare41 \end{array}$$

49).
$$\begin{array}{r} 6\blacksquare\blacksquare \\ \blacksquare08 + \\ \hline 1486 \end{array}$$

2).
$$\begin{array}{r} \blacksquare7\blacksquare \\ 13\blacksquare + \\ \hline 388 \end{array}$$

14).
$$\begin{array}{r} 5\blacksquare\blacksquare \\ \blacksquare3 + \\ \hline 933 \end{array}$$

26).
$$\begin{array}{r} 24\blacksquare\blacksquare \\ \blacksquare9 + \\ \hline 687 \end{array}$$

38).
$$\begin{array}{r} 47\blacksquare\blacksquare \\ \blacksquare78 + \\ \hline 743 \end{array}$$

50).
$$\begin{array}{r} \blacksquare74 \\ 9\blacksquare + \\ \hline 1556 \end{array}$$

3).
$$\begin{array}{r} 2\blacksquare\blacksquare \\ 163 + \\ \hline \blacksquare69 \end{array}$$

15).
$$\begin{array}{r} 4\blacksquare\blacksquare \\ 292 + \\ \hline \blacksquare67 \end{array}$$

27).
$$\begin{array}{r} 208 \\ \blacksquare\blacksquare + \\ \hline 385 \end{array}$$

39).
$$\begin{array}{r} \blacksquare\blacksquare \\ 476 + \\ \hline 903 \end{array}$$

51).
$$\begin{array}{r} 778 \\ 911 + \\ \hline \blacksquare\blacksquare \end{array}$$

4).
$$\begin{array}{r} 14\blacksquare\blacksquare \\ \blacksquare3 + \\ \hline 258 \end{array}$$

16).
$$\begin{array}{r} 506 \\ \blacksquare08 + \\ \hline 8\blacksquare \end{array}$$

28).
$$\begin{array}{r} \blacksquare\blacksquare \\ 361 + \\ \hline 721 \end{array}$$

40).
$$\begin{array}{r} \blacksquare\blacksquare \\ 788 + \\ \hline 986 \end{array}$$

52).
$$\begin{array}{r} \blacksquare\blacksquare \\ 834 + \\ \hline 1817 \end{array}$$

5).
$$\begin{array}{r} \blacksquare\blacksquare \\ 214 + \\ \hline 496 \end{array}$$

17).
$$\begin{array}{r} \blacksquare\blacksquare \\ 181 + \\ \hline 849 \end{array}$$

29).
$$\begin{array}{r} \blacksquare27 \\ 655 + \\ \hline 7\blacksquare \end{array}$$

41).
$$\begin{array}{r} 847 \\ \blacksquare\blacksquare + \\ \hline 1179 \end{array}$$

53).
$$\begin{array}{r} 47\blacksquare \\ \blacksquare3 + \\ \hline 1408 \end{array}$$

6).
$$\begin{array}{r} 303 \\ \blacksquare\blacksquare + \\ \hline 481 \end{array}$$

18).
$$\begin{array}{r} 639 \\ \blacksquare\blacksquare + \\ \hline 887 \end{array}$$

30).
$$\begin{array}{r} 565 \\ 28\blacksquare + \\ \hline \blacksquare19 \end{array}$$

42).
$$\begin{array}{r} \blacksquare25 \\ 5\blacksquare + \\ \hline 1237 \end{array}$$

54).
$$\begin{array}{r} \blacksquare\blacksquare \\ 993 + \\ \hline 1867 \end{array}$$

7).
$$\begin{array}{r} 166 \\ \blacksquare9 + \\ \hline 48\blacksquare \end{array}$$

19).
$$\begin{array}{r} \blacksquare76 \\ 573 + \\ \hline 8\blacksquare \end{array}$$

31).
$$\begin{array}{r} 58\blacksquare \\ \blacksquare5 + \\ \hline 872 \end{array}$$

43).
$$\begin{array}{r} 607 \\ \blacksquare\blacksquare + \\ \hline 1159 \end{array}$$

55).
$$\begin{array}{r} 757 \\ \blacksquare\blacksquare + \\ \hline 1615 \end{array}$$

8).
$$\begin{array}{r} 234 \\ 126 + \\ \hline \blacksquare\blacksquare \end{array}$$

20).
$$\begin{array}{r} \blacksquare9 \\ 23\blacksquare + \\ \hline 567 \end{array}$$

32).
$$\begin{array}{r} \blacksquare\blacksquare \\ 496 + \\ \hline 812 \end{array}$$

44).
$$\begin{array}{r} \blacksquare40 \\ 529 + \\ \hline 10\blacksquare \end{array}$$

56).
$$\begin{array}{r} 7\blacksquare\blacksquare \\ 749 + \\ \hline 1732 \end{array}$$

9).
$$\begin{array}{r} 105 \\ 2\blacksquare + \\ \hline 660 \end{array}$$

21).
$$\begin{array}{r} 157 \\ 260 + \\ \hline \blacksquare\blacksquare \end{array}$$

33).
$$\begin{array}{r} 563 \\ \blacksquare\blacksquare + \\ \hline 860 \end{array}$$

45).
$$\begin{array}{r} 335 \\ \blacksquare\blacksquare + \\ \hline 1279 \end{array}$$

57).
$$\begin{array}{r} 97\blacksquare\blacksquare \\ \blacksquare9 + \\ \hline 1863 \end{array}$$

10).
$$\begin{array}{r} \blacksquare\blacksquare \\ 314 + \\ \hline 583 \end{array}$$

22).
$$\begin{array}{r} \blacksquare\blacksquare \\ 253 + \\ \hline 429 \end{array}$$

34).
$$\begin{array}{r} \blacksquare64 \\ 2\blacksquare\blacksquare + \\ \hline 700 \end{array}$$

46).
$$\begin{array}{r} \blacksquare8 \\ 92\blacksquare + \\ \hline 1091 \end{array}$$

58).
$$\begin{array}{r} 795 \\ \blacksquare\blacksquare + \\ \hline 1000 \end{array}$$

11).
$$\begin{array}{r} 226 \\ 492 + \\ \hline \blacksquare\blacksquare \end{array}$$

23).
$$\begin{array}{r} 29\blacksquare\blacksquare \\ \blacksquare2 + \\ \hline 539 \end{array}$$

35).
$$\begin{array}{r} 49\blacksquare\blacksquare \\ \blacksquare5 + \\ \hline 990 \end{array}$$

47).
$$\begin{array}{r} \blacksquare7 \\ 42\blacksquare + \\ \hline 1174 \end{array}$$

59).
$$\begin{array}{r} 6\blacksquare\blacksquare \\ 139 + \\ \hline 1618 \end{array}$$

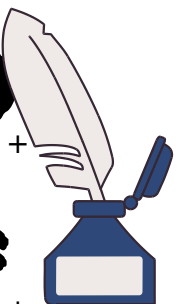
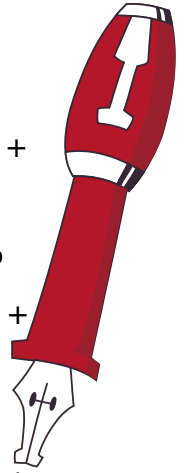
12).
$$\begin{array}{r} 465 \\ 34\blacksquare + \\ \hline \blacksquare39 \end{array}$$

24).
$$\begin{array}{r} 308 \\ 186 + \\ \hline \blacksquare\blacksquare \end{array}$$

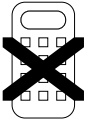
36).
$$\begin{array}{r} 48\blacksquare\blacksquare \\ \blacksquare9 + \\ \hline 886 \end{array}$$

48).
$$\begin{array}{r} 639 \\ \blacksquare\blacksquare + \\ \hline 1460 \end{array}$$

60).
$$\begin{array}{r} 95\blacksquare\blacksquare \\ \blacksquare3 + \\ \hline 1000 \end{array}$$



Three-digit Subtraction.



1).
$$\begin{array}{r} 256 \\ \underline{124} \\ \hline \end{array}$$

13).
$$\begin{array}{r} 574 \\ \underline{346} \\ \hline \end{array}$$

25).
$$\begin{array}{r} 529 \\ \underline{261} \\ \hline \end{array}$$

37).
$$\begin{array}{r} 879 \\ \underline{282} \\ \hline \end{array}$$

49).
$$\begin{array}{r} 787 \\ \underline{699} \\ \hline \end{array}$$

2).
$$\begin{array}{r} 296 \\ \underline{124} \\ \hline \end{array}$$

14).
$$\begin{array}{r} 652 \\ \underline{317} \\ \hline \end{array}$$

26).
$$\begin{array}{r} 807 \\ \underline{245} \\ \hline \end{array}$$

38).
$$\begin{array}{r} 729 \\ \underline{678} \\ \hline \end{array}$$

50).
$$\begin{array}{r} 652 \\ \underline{93} \\ \hline \end{array}$$

3).
$$\begin{array}{r} 375 \\ \underline{141} \\ \hline \end{array}$$

15).
$$\begin{array}{r} 676 \\ \underline{208} \\ \hline \end{array}$$

27).
$$\begin{array}{r} 563 \\ \underline{391} \\ \hline \end{array}$$

39).
$$\begin{array}{r} 739 \\ \underline{279} \\ \hline \end{array}$$

51).
$$\begin{array}{r} 601 \\ \underline{485} \\ \hline \end{array}$$

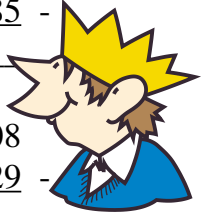
4).
$$\begin{array}{r} 354 \\ \underline{103} \\ \hline \end{array}$$

16).
$$\begin{array}{r} 498 \\ \underline{339} \\ \hline \end{array}$$

28).
$$\begin{array}{r} 764 \\ \underline{682} \\ \hline \end{array}$$

40).
$$\begin{array}{r} 854 \\ \underline{167} \\ \hline \end{array}$$

52).
$$\begin{array}{r} 908 \\ \underline{429} \\ \hline \end{array}$$



5).
$$\begin{array}{r} 267 \\ \underline{43} \\ \hline \end{array}$$

17).
$$\begin{array}{r} 885 \\ \underline{157} \\ \hline \end{array}$$

29).
$$\begin{array}{r} 837 \\ \underline{764} \\ \hline \end{array}$$

41).
$$\begin{array}{r} 745 \\ \underline{266} \\ \hline \end{array}$$

53).
$$\begin{array}{r} 507 \\ \underline{349} \\ \hline \end{array}$$

6).
$$\begin{array}{r} 359 \\ \underline{236} \\ \hline \end{array}$$

18).
$$\begin{array}{r} 774 \\ \underline{367} \\ \hline \end{array}$$

30).
$$\begin{array}{r} 439 \\ \underline{382} \\ \hline \end{array}$$

42).
$$\begin{array}{r} 948 \\ \underline{659} \\ \hline \end{array}$$

54).
$$\begin{array}{r} 807 \\ \underline{218} \\ \hline \end{array}$$

7).
$$\begin{array}{r} 179 \\ \underline{64} \\ \hline \end{array}$$

19).
$$\begin{array}{r} 672 \\ \underline{469} \\ \hline \end{array}$$

31).
$$\begin{array}{r} 507 \\ \underline{182} \\ \hline \end{array}$$

43).
$$\begin{array}{r} 963 \\ \underline{555} \\ \hline \end{array}$$

55).
$$\begin{array}{r} 704 \\ \underline{656} \\ \hline \end{array}$$

8).
$$\begin{array}{r} 476 \\ \underline{225} \\ \hline \end{array}$$

20).
$$\begin{array}{r} 966 \\ \underline{557} \\ \hline \end{array}$$

32).
$$\begin{array}{r} 716 \\ \underline{94} \\ \hline \end{array}$$

44).
$$\begin{array}{r} 906 \\ \underline{177} \\ \hline \end{array}$$

56).
$$\begin{array}{r} 600 \\ \underline{347} \\ \hline \end{array}$$

9).
$$\begin{array}{r} 507 \\ \underline{403} \\ \hline \end{array}$$

21).
$$\begin{array}{r} 404 \\ \underline{163} \\ \hline \end{array}$$

33).
$$\begin{array}{r} 995 \\ \underline{477} \\ \hline \end{array}$$

45).
$$\begin{array}{r} 840 \\ \underline{382} \\ \hline \end{array}$$

57).
$$\begin{array}{r} 900 \\ \underline{257} \\ \hline \end{array}$$

10).
$$\begin{array}{r} 586 \\ \underline{514} \\ \hline \end{array}$$

22).
$$\begin{array}{r} 479 \\ \underline{187} \\ \hline \end{array}$$

34).
$$\begin{array}{r} 690 \\ \underline{187} \\ \hline \end{array}$$

46).
$$\begin{array}{r} 932 \\ \underline{174} \\ \hline \end{array}$$

58).
$$\begin{array}{r} 400 \\ \underline{187} \\ \hline \end{array}$$

11).
$$\begin{array}{r} 642 \\ \underline{126} \\ \hline \end{array}$$

23).
$$\begin{array}{r} 614 \\ \underline{130} \\ \hline \end{array}$$

35).
$$\begin{array}{r} 674 \\ \underline{427} \\ \hline \end{array}$$

47).
$$\begin{array}{r} 875 \\ \underline{378} \\ \hline \end{array}$$

59).
$$\begin{array}{r} 700 \\ \underline{139} \\ \hline \end{array}$$

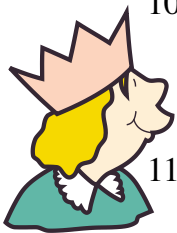
12).
$$\begin{array}{r} 563 \\ \underline{349} \\ \hline \end{array}$$

24).
$$\begin{array}{r} 357 \\ \underline{182} \\ \hline \end{array}$$

36).
$$\begin{array}{r} 986 \\ \underline{892} \\ \hline \end{array}$$

48).
$$\begin{array}{r} 896 \\ \underline{798} \\ \hline \end{array}$$

60).
$$\begin{array}{r} 900 \\ \underline{872} \\ \hline \end{array}$$



Ink Blots (3-digit Subtraction).

Paul has spilt some ink over his homework. Can you help him write it out correctly ?

$$\begin{array}{r} 1). \quad 24\blacksquare \\ \underline{21} - \\ 124 \end{array}$$

$$\begin{array}{r} 13). \quad 74\blacksquare \\ \underline{\blacksquare 2} - \\ 507 \end{array}$$

$$\begin{array}{r} 25). \quad 586 \\ \underline{\blacksquare 2} - \\ 29\blacksquare \end{array}$$

$$\begin{array}{r} 37). \quad \blacksquare\blacksquare\blacksquare \\ \underline{386} - \\ 494 \end{array}$$

$$\begin{array}{r} 49). \quad 524 \\ \underline{279} - \\ \blacksquare\blacksquare\blacksquare \end{array}$$

$$\begin{array}{r} 2). \quad 265 \\ \underline{17\blacksquare} - \\ 125 \end{array}$$

$$\begin{array}{r} 14). \quad \blacksquare\blacksquare\blacksquare \\ \underline{323} - \\ 205 \end{array}$$

$$\begin{array}{r} 26). \quad 396 \\ \underline{278} - \\ \blacksquare\blacksquare\blacksquare \end{array}$$

$$\begin{array}{r} 38). \quad 737 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 468 \end{array}$$

$$\begin{array}{r} 50). \quad 703 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 606 \end{array}$$

$$\begin{array}{r} 3). \quad \blacksquare\blacksquare 2 \\ \underline{172} - \\ 220 \end{array}$$

$$\begin{array}{r} 15). \quad 576 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 270 \end{array}$$

$$\begin{array}{r} 27). \quad 5\blacksquare\blacksquare \\ \underline{\blacksquare 73} - \\ 151 \end{array}$$

$$\begin{array}{r} 39). \quad 7\blacksquare\blacksquare \\ \underline{\blacksquare 78} - \\ 484 \end{array}$$

$$\begin{array}{r} 51). \quad \blacksquare 04 \\ \underline{2\blacksquare\blacksquare} - \\ 415 \end{array}$$

$$\begin{array}{r} 4). \quad 354 \\ \underline{1\blacksquare\blacksquare} - \\ 213 \end{array}$$

$$\begin{array}{r} 16). \quad 4\blacksquare\blacksquare \\ \underline{276} - \\ 216 \end{array}$$

$$\begin{array}{r} 28). \quad \blacksquare\blacksquare 8 \\ \underline{\blacksquare 8\blacksquare} - \\ 355 \end{array}$$

$$\begin{array}{r} 40). \quad \blacksquare 15 \\ \underline{1\blacksquare\blacksquare} - \\ 478 \end{array}$$

$$\begin{array}{r} 52). \quad \blacksquare\blacksquare 6 \\ \underline{\blacksquare 98} - \\ 70\blacksquare \end{array}$$

$$\begin{array}{r} 5). \quad \blacksquare 6\blacksquare \\ \underline{\blacksquare 32} - \\ 135 \end{array}$$

$$\begin{array}{r} 17). \quad 875 \\ \underline{\blacksquare\blacksquare 7} - \\ 758 \end{array}$$

$$\begin{array}{r} 29). \quad 85\blacksquare \\ \underline{\blacksquare\blacksquare 47} - \\ \blacksquare\blacksquare\blacksquare 3 \end{array}$$

$$\begin{array}{r} 41). \quad \blacksquare\blacksquare\blacksquare \\ \underline{\blacksquare 299} - \\ 358 \end{array}$$

$$\begin{array}{r} 53). \quad 604 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 216 \end{array}$$

$$\begin{array}{r} 6). \quad 349 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 107 \end{array}$$

$$\begin{array}{r} 18). \quad \blacksquare\blacksquare 4 \\ \underline{238} - \\ 556 \end{array}$$

$$\begin{array}{r} 30). \quad 487 \\ \underline{1\blacksquare\blacksquare} - \\ \blacksquare 29 \end{array}$$

$$\begin{array}{r} 42). \quad \blacksquare\blacksquare 1 \\ \underline{\blacksquare 8\blacksquare} - \\ 068 \end{array}$$

$$\begin{array}{r} 54). \quad 7\blacksquare\blacksquare \\ \underline{\blacksquare 129} - \\ 79 \end{array}$$

$$\begin{array}{r} 7). \quad \blacksquare\blacksquare\blacksquare \\ \underline{\blacksquare 56} - \\ 140 \end{array}$$

$$\begin{array}{r} 19). \quad 697 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 378 \end{array}$$

$$\begin{array}{r} 31). \quad \blacksquare\blacksquare 3 \\ \underline{17\blacksquare} - \\ 437 \end{array}$$

$$\begin{array}{r} 43). \quad \blacksquare\blacksquare 2 \\ \underline{325} - \\ 63\blacksquare \end{array}$$

$$\begin{array}{r} 55). \quad 703 \\ \underline{\blacksquare\blacksquare 55} - \\ 3\blacksquare\blacksquare \end{array}$$

$$\begin{array}{r} 8). \quad 4\blacksquare\blacksquare \\ \underline{\blacksquare 51} - \\ 220 \end{array}$$

$$\begin{array}{r} 20). \quad 990 \\ \underline{\blacksquare\blacksquare 7} - \\ 563 \end{array}$$

$$\begin{array}{r} 32). \quad 745 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 647 \end{array}$$

$$\begin{array}{r} 44). \quad 966 \\ \underline{\blacksquare 189} - \\ \blacksquare\blacksquare\blacksquare \end{array}$$

$$\begin{array}{r} 56). \quad \blacksquare 06 \\ \underline{3\blacksquare\blacksquare} - \\ 457 \end{array}$$

$$\begin{array}{r} 9). \quad \blacksquare\blacksquare 8 \\ \underline{20\blacksquare} - \\ 403 \end{array}$$

$$\begin{array}{r} 21). \quad 437 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 275 \end{array}$$

$$\begin{array}{r} 33). \quad \blacksquare\blacksquare\blacksquare \\ \underline{\blacksquare\blacksquare 79} - \\ 359 \end{array}$$

$$\begin{array}{r} 45). \quad 85\blacksquare \\ \underline{\blacksquare 369} - \\ \blacksquare\blacksquare\blacksquare 9 \end{array}$$

$$\begin{array}{r} 57). \quad 9\blacksquare\blacksquare \\ \underline{\blacksquare\blacksquare 57} - \\ 643 \end{array}$$

$$\begin{array}{r} 10). \quad 48\blacksquare \\ \underline{\blacksquare 1} - \\ 251 \end{array}$$

$$\begin{array}{r} 22). \quad \blacksquare\blacksquare\blacksquare \\ \underline{\blacksquare 130} - \\ 397 \end{array}$$

$$\begin{array}{r} 34). \quad 4\blacksquare\blacksquare \\ \underline{\blacksquare\blacksquare 95} - \\ 285 \end{array}$$

$$\begin{array}{r} 46). \quad \blacksquare\blacksquare\blacksquare \\ \underline{\blacksquare 897} - \\ 028 \end{array}$$

$$\begin{array}{r} 58). \quad 50\blacksquare\blacksquare \\ \underline{\blacksquare\blacksquare 1} - \\ 219 \end{array}$$

$$\begin{array}{r} 11). \quad 549 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 328 \end{array}$$

$$\begin{array}{r} 23). \quad 739 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 586 \end{array}$$

$$\begin{array}{r} 35). \quad 672 \\ \underline{\blacksquare 295} - \\ \blacksquare\blacksquare\blacksquare \end{array}$$

$$\begin{array}{r} 47). \quad 674 \\ \underline{\blacksquare\blacksquare\blacksquare} - \\ 396 \end{array}$$

$$\begin{array}{r} 59). \quad \blacksquare\blacksquare\blacksquare \\ \underline{\blacksquare 147} - \\ 753 \end{array}$$

$$\begin{array}{r} 12). \quad 658 \\ \underline{342} - \\ \blacksquare\blacksquare\blacksquare \end{array}$$

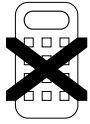
$$\begin{array}{r} 24). \quad 3\blacksquare\blacksquare \\ \underline{\blacksquare\blacksquare 84} - \\ 180 \end{array}$$

$$\begin{array}{r} 36). \quad 9\blacksquare\blacksquare\blacksquare \\ \underline{\blacksquare 397} - \\ \blacksquare\blacksquare 97 \end{array}$$

$$\begin{array}{r} 48). \quad 61\blacksquare\blacksquare \\ \underline{\blacksquare\blacksquare 8} - \\ 079 \end{array}$$

$$\begin{array}{r} 60). \quad 60\blacksquare\blacksquare \\ \underline{\blacksquare\blacksquare 1} - \\ 219 \end{array}$$





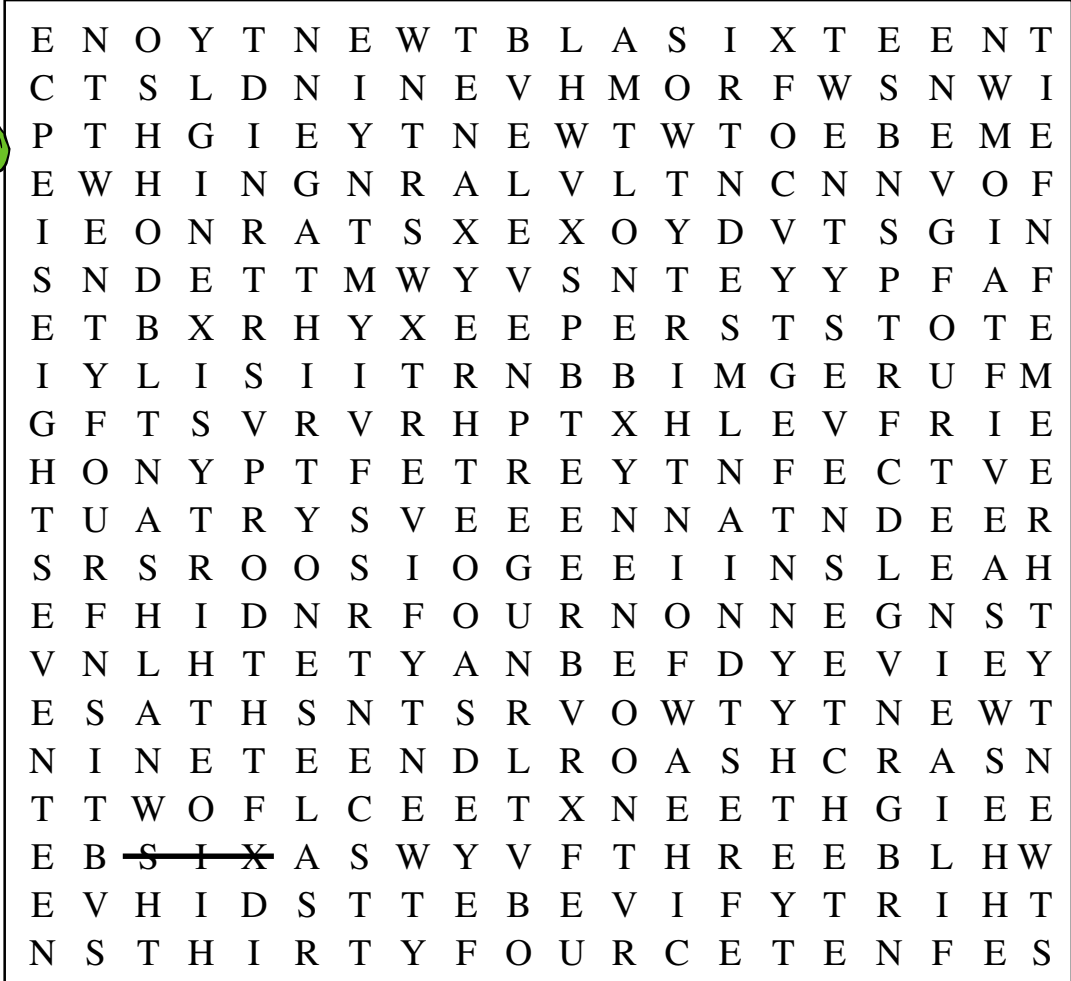
Single Digit Addition and Subtraction 1.

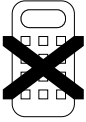
Solve the sum and write the answer in **words** in the space provided.

Now search for the words in the answer grid below, the answer may be in any direction!!

The first one has been done for you.

- | | | |
|----------------------------------|----------------------------------|----------------------------------|
| 1). $5 + 4 - 3 =$ <u>SIX</u> | 2). $9 - 5 + 8 =$ _____ | 3). $9 - 4 + 2 =$ _____ |
| 4). $3 + 7 + 6 - 2 =$ _____ | 5). $6 + 8 - 2 + 9 =$ _____ | 6). $8 + 7 - 1 + 9 =$ _____ |
| 7). $3 + 4 - 6 + 3 =$ _____ | 8). $7 + 4 + 6 =$ _____ | 9). $9 - 2 - 6 =$ _____ |
| 10). $8 + 7 + 9 + 5 =$ _____ | 11). $5 + 8 - 4 - 7 =$ _____ | 12). $9 + 7 + 6 + 4 + 9 =$ _____ |
| 13). $3 + 9 + 7 + 8 - 2 =$ _____ | 14). $6 + 5 - 3 + 8 - 1 =$ _____ | 15). $4 - 1 + 8 + 7 + 6 =$ _____ |
| 16). $9 + 8 + 9 + 7 =$ _____ | 17). $7 + 5 + 9 - 2 =$ _____ | 18). $7 + 9 + 8 - 2 + 5 =$ _____ |
| 19). $9 + 8 - 1 + 8 + 8 =$ _____ | 20). $3 - 2 + 7 - 5 =$ _____ | 21). $9 + 7 + 8 + 6 + 9 =$ _____ |
| 22). $6 - 3 + 9 + 4 =$ _____ | 23). $3 + 8 - 5 + 4 =$ _____ | 24). $8 - 3 + 9 + 8 + 6 =$ _____ |
| 25). $9 + 8 + 9 + 7 - 2 =$ _____ | 26). $7 + 6 - 5 =$ _____ | 27). $7 + 8 + 9 + 8 + 8 =$ _____ |
| 28). $4 - 2 + 8 - 5 =$ _____ | 29). $4 + 7 - 3 + 5 =$ _____ | 30). $9 - 2 + 9 + 9 + 9 =$ _____ |
| 31). $3 - 1 + 9 - 2 =$ _____ | 32). $9 + 9 + 9 + 9 =$ _____ | 33). $8 - 2 + 9 + 7 + 4 =$ _____ |
| 34). $7 - 4 + 8 + 6 + 5 =$ _____ | 35). $5 + 8 - 1 + 6 =$ _____ | 36). $8 + 8 - 9 + 4 =$ _____ |





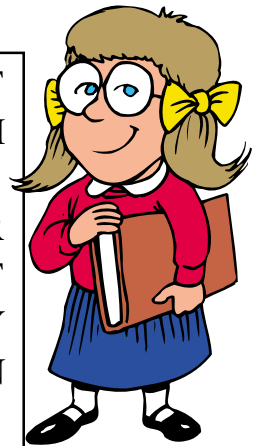
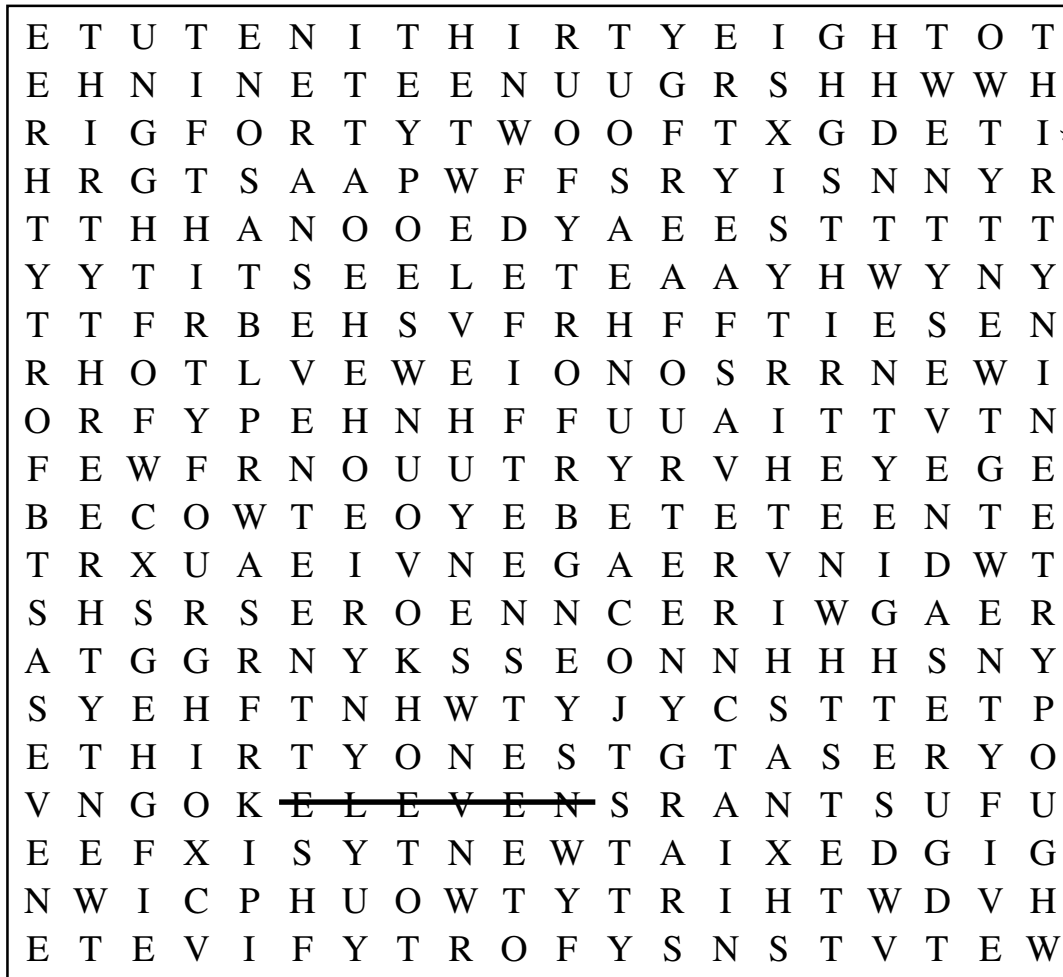
Single Digit Addition and Subtraction 2.

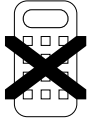
Solve the sum and write the answer in **words** in the space provided.

Now search for the words in the answer grid below, the answer may be in any direction!!

The first one has been done for you.

- 1). $8 + 3 - 7 + 9 - 2 =$ ELEVEN 2). $4 + 8 - 3 + 7 - 9 =$ _____ 3). $9 + 9 + 9 + 9 + 9 =$ _____
 4). $6 + 9 + 8 + 3 + 5 =$ _____ 5). $6 + 5 + 9 + 8 - 7 =$ _____ 6). $3 + 8 + 7 - 2 + 8 =$ _____
 7). $8 + 6 + 7 + 6 + 5 =$ _____ 8). $7 - 4 + 8 - 5 + 6 =$ _____ 9). $8 + 5 - 2 + 9 + 8 =$ _____
 10). $9 + 7 + 9 + 8 + 9 =$ _____ 11). $6 - 4 + 7 - 5 - 1 =$ _____ 12). $3 + 9 + 4 - 6 + 5 =$ _____
 13). $7 + 8 + 9 + 9 + 4 =$ _____ 14). $6 - 1 + 9 + 8 - 4 =$ _____ 15). $8 + 6 - 2 - 5 + 7 =$ _____
 16). $7 + 9 + 6 - 2 + 5 =$ _____ 17). $8 + 7 + 9 + 8 + 9 =$ _____ 18). $8 + 5 + 9 + 7 + 4 =$ _____
 19). $6 + 8 - 1 + 9 + 5 =$ _____ 20). $8 + 7 + 8 + 7 + 8 =$ _____ 21). $9 - 6 + 7 + 7 + 5 =$ _____
 22). $8 + 9 + 8 + 5 + 9 =$ _____ 23). $6 - 2 + 9 + 8 - 4 =$ _____ 24). $4 + 8 + 6 + 7 + 4 =$ _____
 25). $9 + 8 + 9 + 8 + 9 =$ _____ 26). $7 + 8 + 7 + 6 + 7 =$ _____ 27). $3 + 8 - 2 - 4 + 5 =$ _____
 28). $7 + 4 + 7 + 7 + 9 =$ _____ 29). $9 + 8 + 9 + 9 + 9 =$ _____ 30). $6 + 9 - 4 + 5 + 3 =$ _____
 31). $6 + 4 - 5 + 9 - 1 =$ _____ 32). $7 - 4 + 8 + 9 + 6 =$ _____ 33). $7 + 9 + 7 + 7 + 6 =$ _____
 34). $8 + 7 - 5 + 6 + 7 =$ _____ 35). $9 + 8 - 3 - 5 + 7 =$ _____ 36). $7 - 4 + 8 + 2 - 5 =$ _____





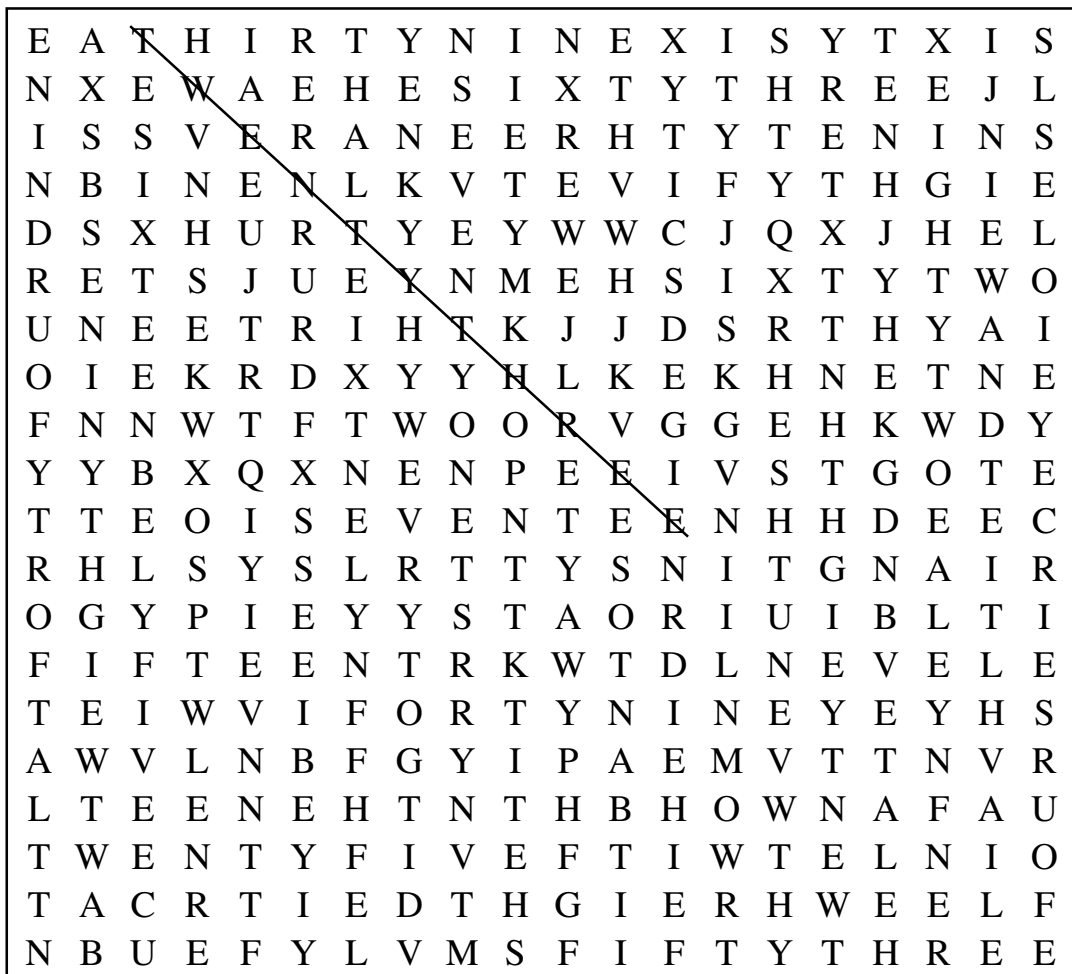
Two Digit Addition and Subtraction 1.

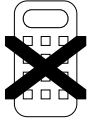
Solve the sum and write the answer in **words** in the space provided.

Now search for the words in the answer grid below, the answer may be in any direction!!

The first one has been done for you.

- 1). $43 - 20 =$ TWENTYTHREE 2). $71 - 67 =$ _____ 3). $12 + 27 =$ _____
4). $45 - 33 =$ _____ 5). $86 - 75 =$ _____ 6). $63 - 58 =$ _____
7). $21 + 38 =$ _____ 8). $27 + 36 =$ _____ 9). $44 - 29 =$ _____
10). $33 + 18 =$ _____ 11). $14 + 34 =$ _____ 12). $78 - 61 =$ _____
13). $97 - 67 =$ _____ 14). $50 - 25 =$ _____ 15). $15 + 29 =$ _____
16). $67 + 18 =$ _____ 17). $32 + 17 =$ _____ 18). $27 + 35 =$ _____
19). $98 - 78 =$ _____ 20). $68 - 55 =$ _____ 21). $36 + 43 =$ _____
22). $84 - 18 =$ _____ 23). $43 - 15 =$ _____ 24). $93 - 77 =$ _____
25). $21 + 31 =$ _____ 26). $45 + 26 =$ _____ 27). $38 + 52 =$ _____
28). $84 - 77 =$ _____ 29). $28 + 61 =$ _____ 30). $18 + 18 =$ _____
31). $65 - 56 =$ _____ 32). $47 + 46 =$ _____ 33). $45 - 37 =$ _____
34). $64 + 18 =$ _____ 35). $72 - 19 =$ _____ 36). $27 + 33 =$ _____





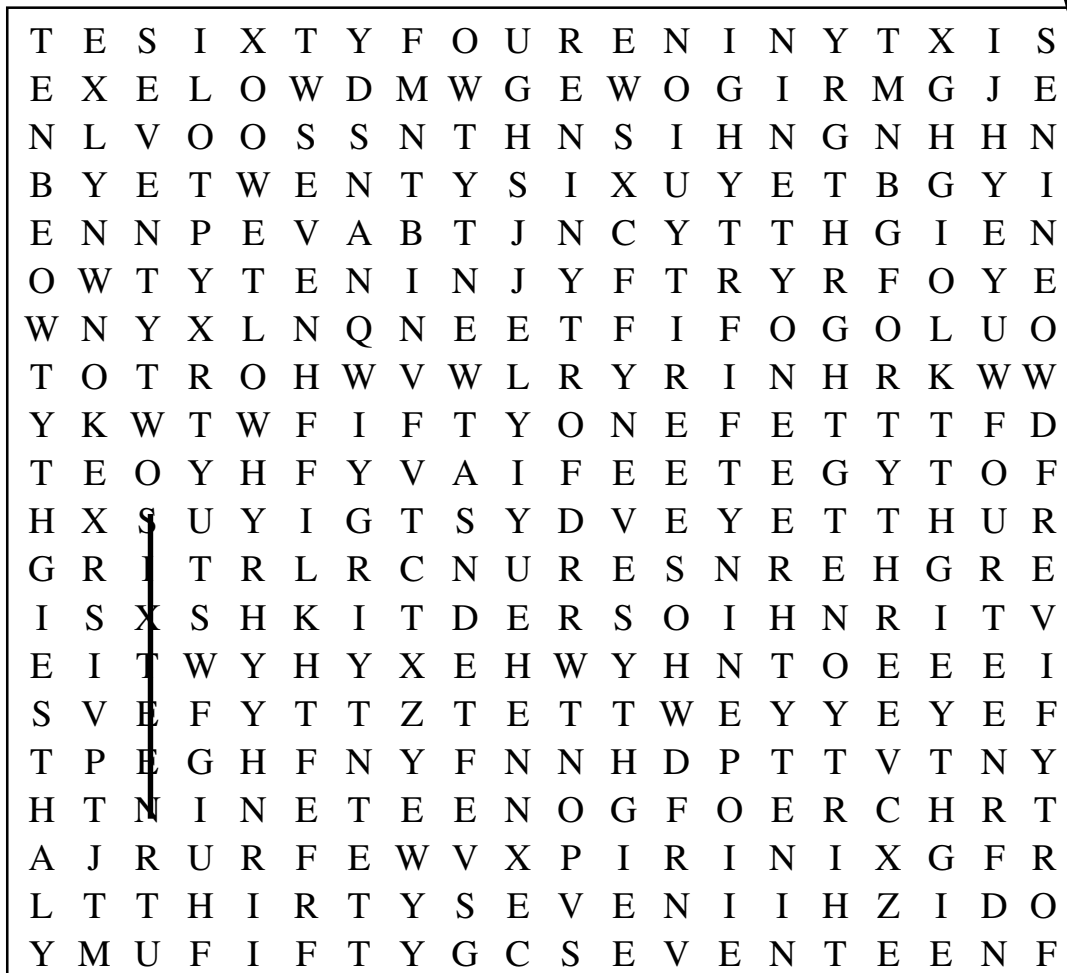
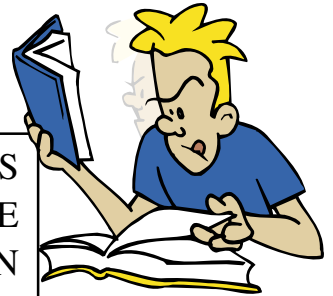
Two Digit Addition and Subtraction 2.

Solve the sum and write the answer in **words** in the space provided.

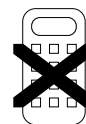
Now search for the words in the answer grid below, the answer may be in any direction!!

The first one has been done for you.

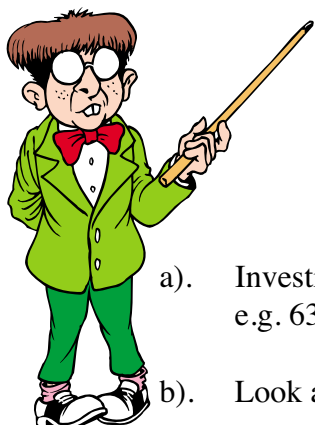
- | | | |
|--------------------------------|------------------------|------------------------|
| 1). $47 - 31 =$ <u>SIXTEEN</u> | 2). $50 - 24 =$ _____ | 3). $34 + 17 =$ _____ |
| 4). $93 - 50 =$ _____ | 5). $24 + 29 =$ _____ | 6). $85 - 64 =$ _____ |
| 7). $46 + 18 =$ _____ | 8). $71 - 39 =$ _____ | 9). $67 - 48 =$ _____ |
| 10). $26 + 46 =$ _____ | 11). $96 - 66 =$ _____ | 12). $54 - 37 =$ _____ |
| 13). $13 + 46 =$ _____ | 14). $27 + 38 =$ _____ | 15). $64 - 33 =$ _____ |
| 16). $80 - 58 =$ _____ | 17). $39 + 11 =$ _____ | 18). $70 - 57 =$ _____ |
| 19). $53 - 33 =$ _____ | 20). $21 + 67 =$ _____ | 21). $19 + 18 =$ _____ |
| 22). $27 + 18 =$ _____ | 23). $61 - 47 =$ _____ | 24). $16 + 33 =$ _____ |
| 25). $75 - 60 =$ _____ | 26). $46 + 23 =$ _____ | 27). $29 + 47 =$ _____ |
| 28). $94 - 87 =$ _____ | 29). $58 + 24 =$ _____ | 30). $26 + 65 =$ _____ |
| 31). $48 + 44 =$ _____ | 32). $43 - 33 =$ _____ | 33). $21 + 66 =$ _____ |
| 34). $63 - 55 =$ _____ | 35). $72 - 63 =$ _____ | 36). $19 + 74 =$ _____ |



Adding and Subtracting Investigations.



- 1). Take any two digits, reverse the digits. Put the bigger number first and find the difference. Continue this process with the answer until you come to a single digit answer.



e.g. $73 - \begin{array}{r} 37 \\ \hline 36 \end{array}$ $63 - \begin{array}{r} 36 \\ \hline 27 \end{array}$ $72 - \begin{array}{r} 27 \\ \hline 45 \end{array}$ $54 - \begin{array}{r} 45 \\ \hline 09 \end{array}$

This chain is $36 \rightarrow 27 \rightarrow 45 \rightarrow 9$.

- a). Investigate numbers that have a difference of three between their digits
e.g. 63, 52, 74 and 85.
- b). Look at other numbers with the same difference between their digits.

- 2). Choose any 2 numbers, e.g. 28 and 8. Find the difference i.e. 20.
This is the next number in the chain. The chain now is $28 \rightarrow 8 \rightarrow 20$.
Now find the difference between 20 and 8 i.e. 12.
The chain is now. $28 \rightarrow 8 \rightarrow 20 \rightarrow 12$.
To carry on the chain find the difference of the last two numbers.
Stop when the last 2 numbers are the same.
Finish off this chain. Try other numbers.



- 3). Digital roots. To find a digital root we add up all the digits. If the answer is more than one digit long we add up these new digits. Keep repeating this until we get a single digit answer.
E.g. To find the digital root of 4306, $4 + 3 + 0 + 6 = 13$, $1 + 3 = 4$.
Therefore 4 is the digital root of 4306.

- a). i). Find all the digital roots of the even numbers up to 40.
ii). Find all the digital roots of the odd numbers up to 41.
iii). What pattern do you notice ?
- b). Look at the digital roots of
i). the 3 times tables. What pattern do you notice ?
ii). the 9 times tables. What pattern do you notice ?
iii). Explore other time tables.

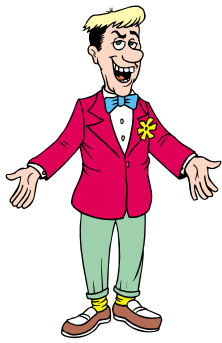
- 4). Choose any 4 digit number. Rearrange the digits so you make the highest and lowest numbers possible. Subtract the smaller one from the larger one.
With the 4 new digits in the answer, rearrange them to make the biggest and smallest number possible. Subtract them. Repeat this process. What happens ?

e.g. Number 5473 $7543 - \begin{array}{r} 3457 \\ \hline 4086 \end{array}$ $8640 - \begin{array}{r} 0468 \\ \hline 8172 \end{array}$ $8721 - \begin{array}{r} 1278 \\ \hline 7443 \end{array}$ $7443 - \begin{array}{r} 3447 \\ \hline 3996 \end{array}$

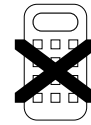
Try it with other sets of 4 digits.
What do you notice ?
What is the longest chain before nothing new occurs ?

Finish this off.





Polite and Rude Numbers.



Polite Numbers are made by adding two or more consecutive numbers.

$$1 + 2 + 3 = 6. \quad 6 \text{ is a Polite Number.}$$

Numbers that are not Polite are Rude!

- A). Copy and fill in the table below for **two** consecutive numbers. Find all the Polite Numbers up to **40**.

Consecutive numbers	Polite Number
1 + 2	3
2 + 3	5
3 + 4	

Is there a pattern ?



- B). Copy and fill in the table below for **three** consecutive numbers. Find all the Polite Numbers up to **40**.

Consecutive numbers	Polite Number
1 + 2 + 3	6
2 + 3 + 4	9
3 + 4 + 5	

What is the pattern ?

- C). Copy and fill in the table below for **four** consecutive numbers. Find all the Polite Numbers up to **40**.



Consecutive numbers	Polite Number
1 + 2 + 3 + 4	10
2 + 3 + 4 + 5	14
3 + 4 + 5 + 6	

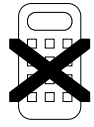
Is there a pattern ?

- D). Draw similar tables for five and six consecutive numbers.

- E). Polite Numbers can be made up in more than one way.
- Which numbers up to 40 can only be formed in one way ?
 - Which numbers up to 40 can be formed in two ways ?
 - Which numbers up to 40 can be formed in three ways ?
 - What are the first 6 **Rude** Numbers ?
 - What pattern do you notice with these Rude Numbers ?



Star Maze (Addition).



Start with the number at the entrance to the maze.
 Every time you go along a line you must **add** that number.
 Enter the maze at IN and find a path to OUT. No line can be visited twice.
 Write down a path that gives you the correct OUT answer.

1).

12 IN

8 3
4
6 8
7 4 3 5 1 5 12
6 6 6 6 4 43
5 5 2 5 7 2 7
7 3
2 4 9
2 9

43 OUT

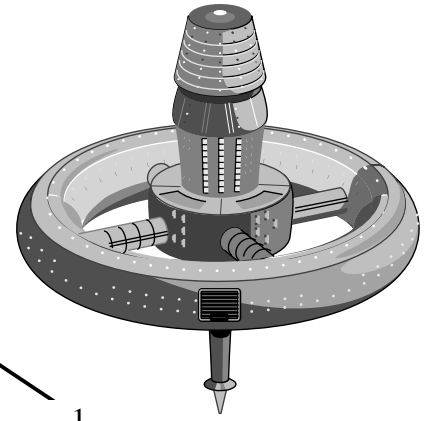
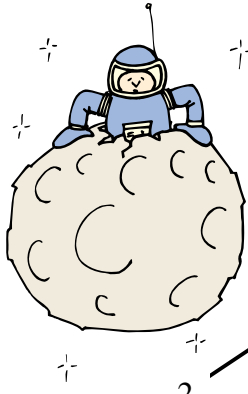
2).

9 IN

4 7
1
4 3
3 1 9 6 4 9 3
7 7 6 3 8 44
4 4 7 3 7 4 2
5 2
9 6 5

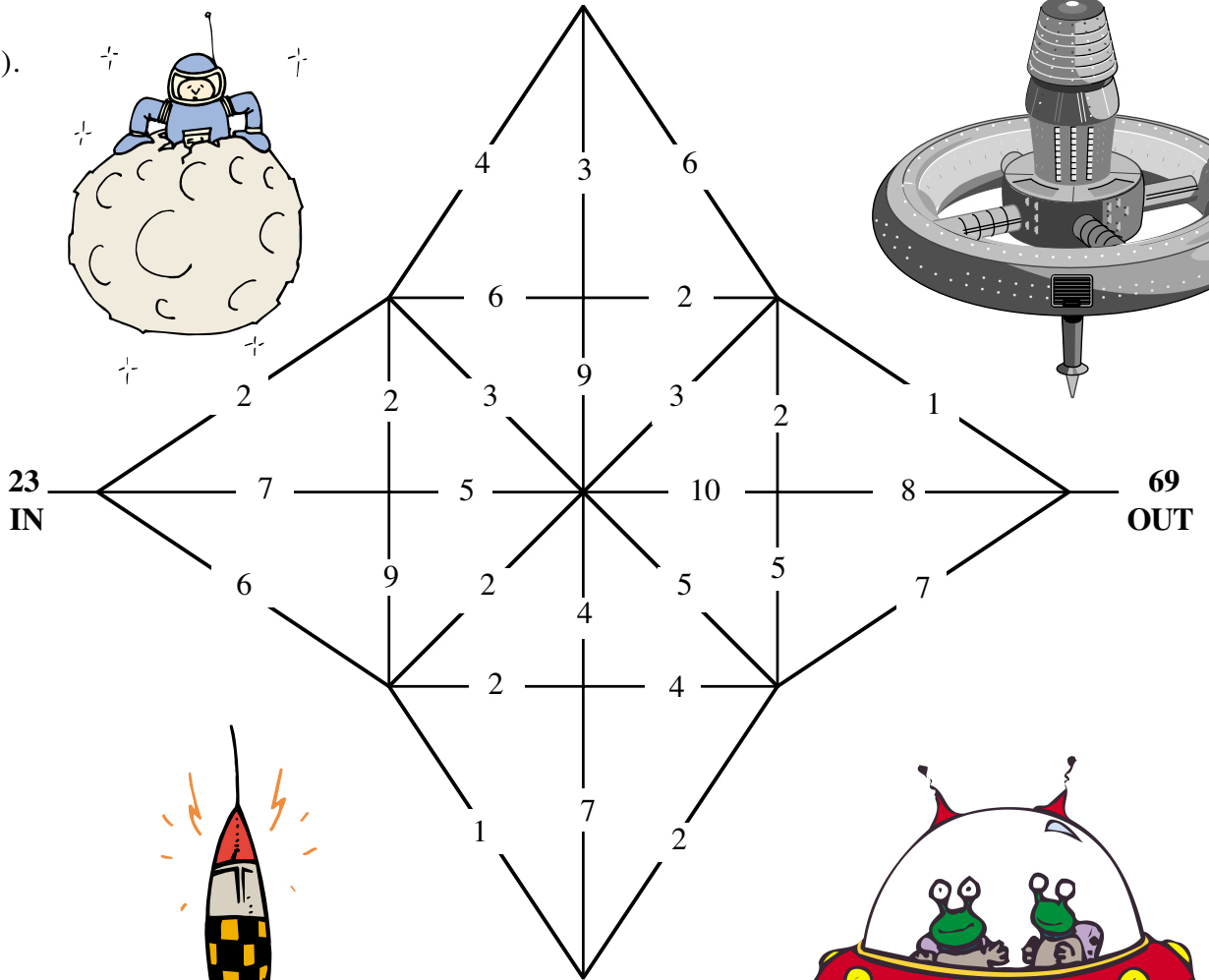
44 OUT

3).

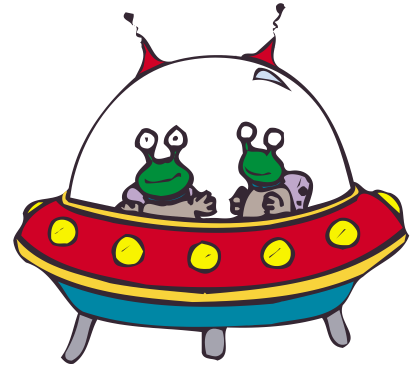
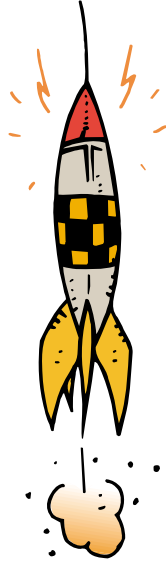


23
IN

69
OUT

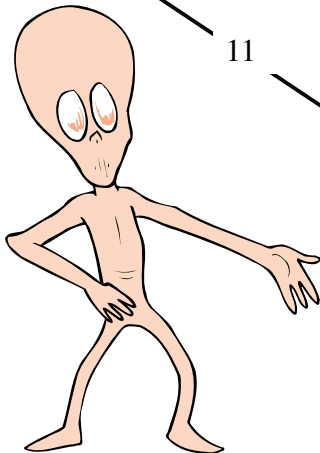
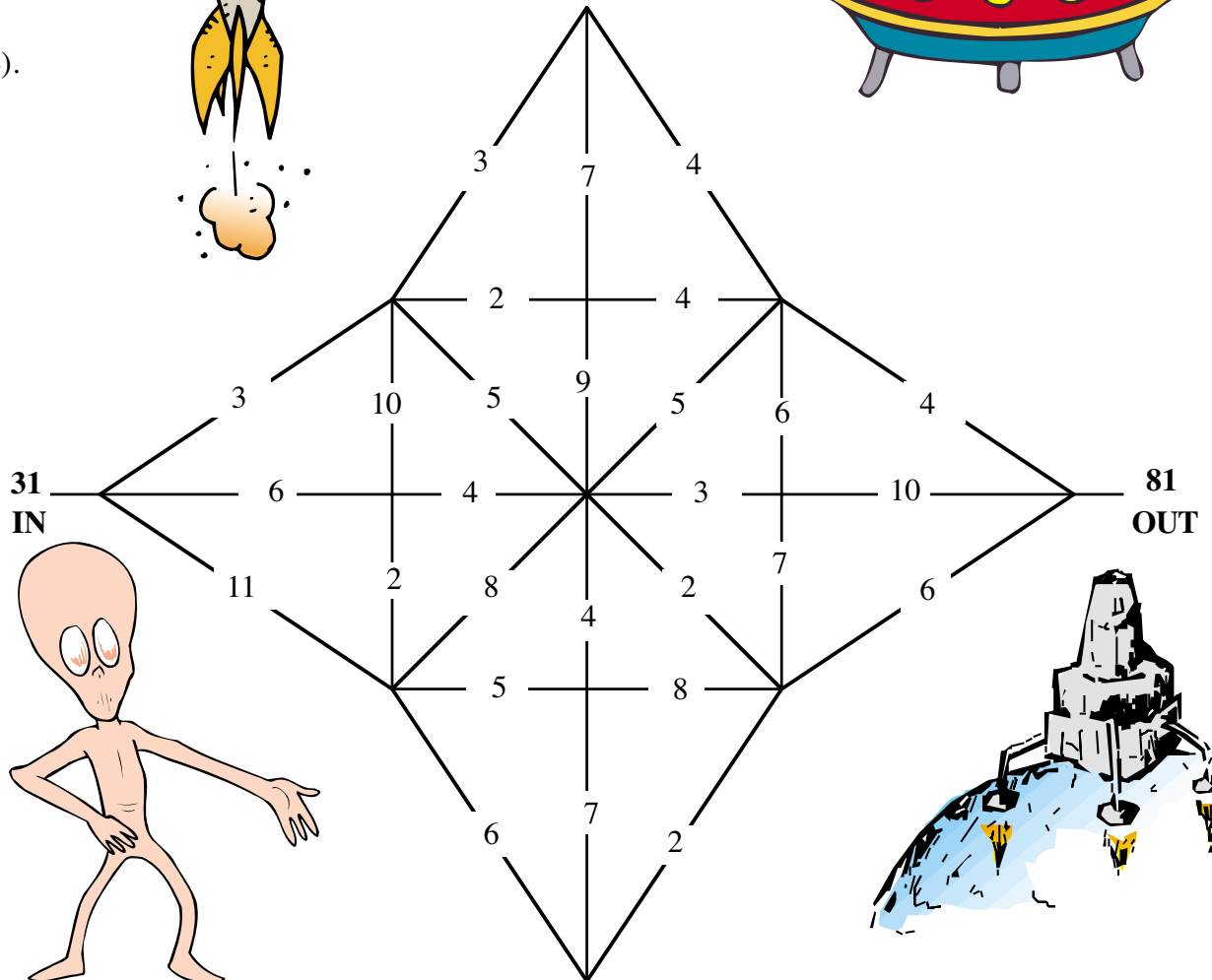


4).

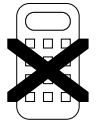


31
IN

81
OUT



Star Maze (Subtraction).



Start with the number at the entrance to the maze.
 Every time you go along a line you must **take away** that number.
 Enter the maze at IN and find a path to OUT. No line can be visited twice.
 Write down a path that gives you the correct OUT answer.

1).

35 IN

7 OUT

A diamond-shaped maze with numbers at various points. The numbers are: 8 (top), 4 (middle-top), 3 (top-right), 6 (middle-left), 8 (middle-right), 4 (middle), 9 (middle-right), 2 (middle), 7 (middle-right), 4 (middle-right), 4 (middle), 2 (middle), 5 (middle), 7 (middle), 3 (middle), 5 (middle), 2 (middle), 5 (middle), 7 (middle), 3 (middle), 7 (middle), 4 (middle), 2 (middle), 5 (middle), 7 (middle), 3 (middle), 2 (middle), 4 (middle), 9 (middle), 2 (middle), 4 (middle), 9 (middle).

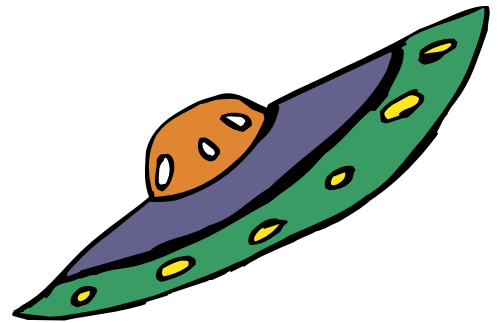
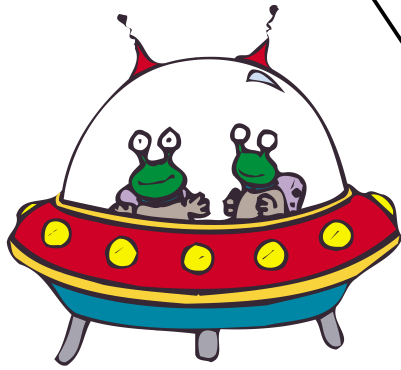
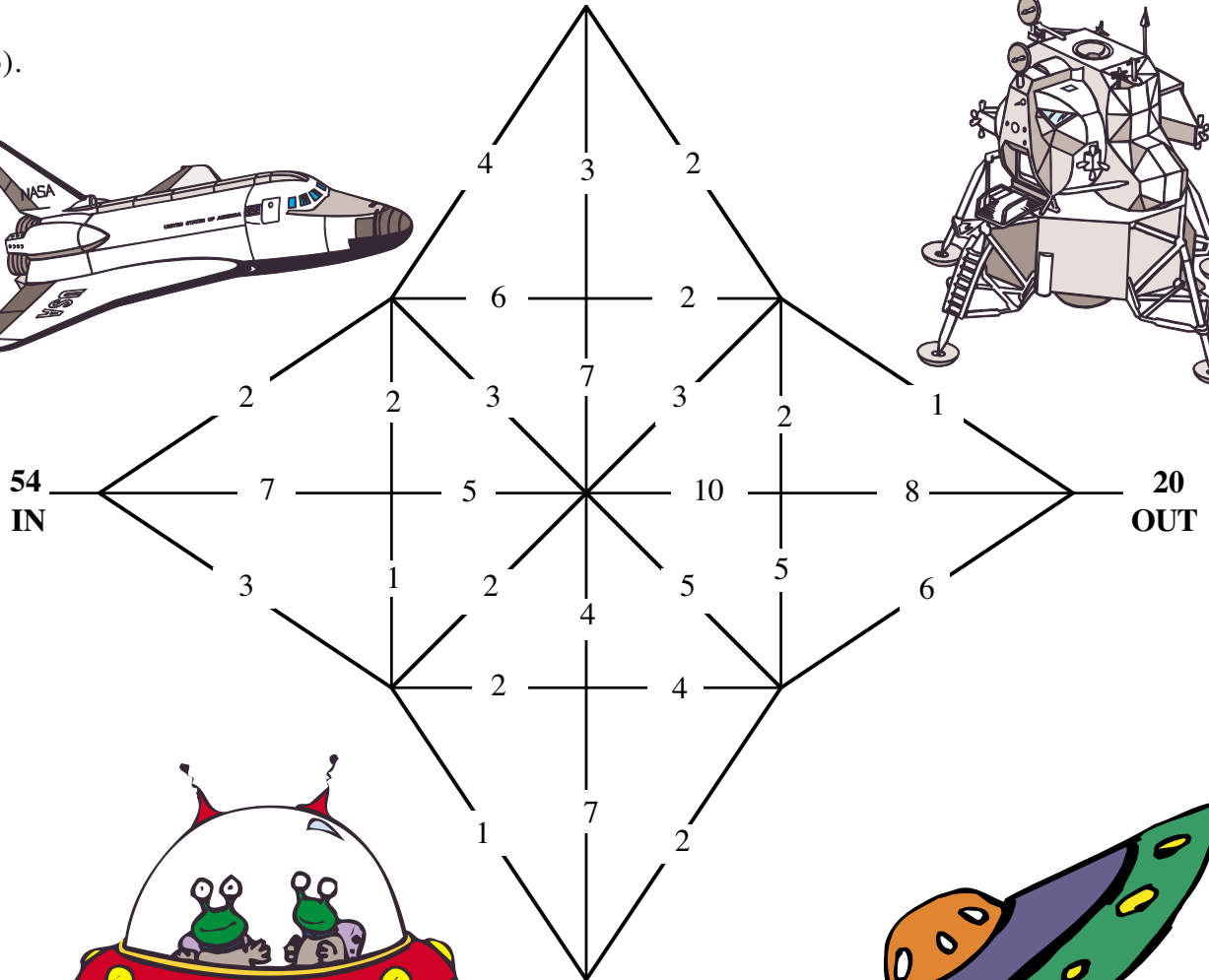
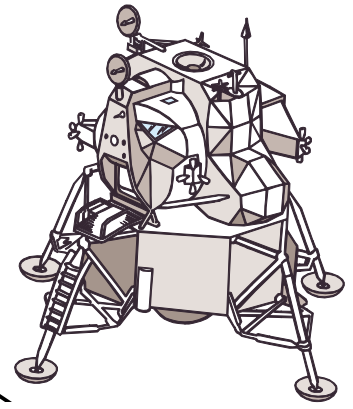
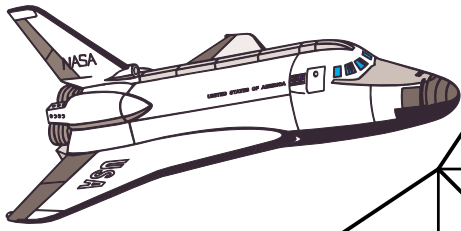
2).

45 IN

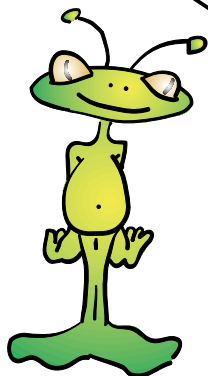
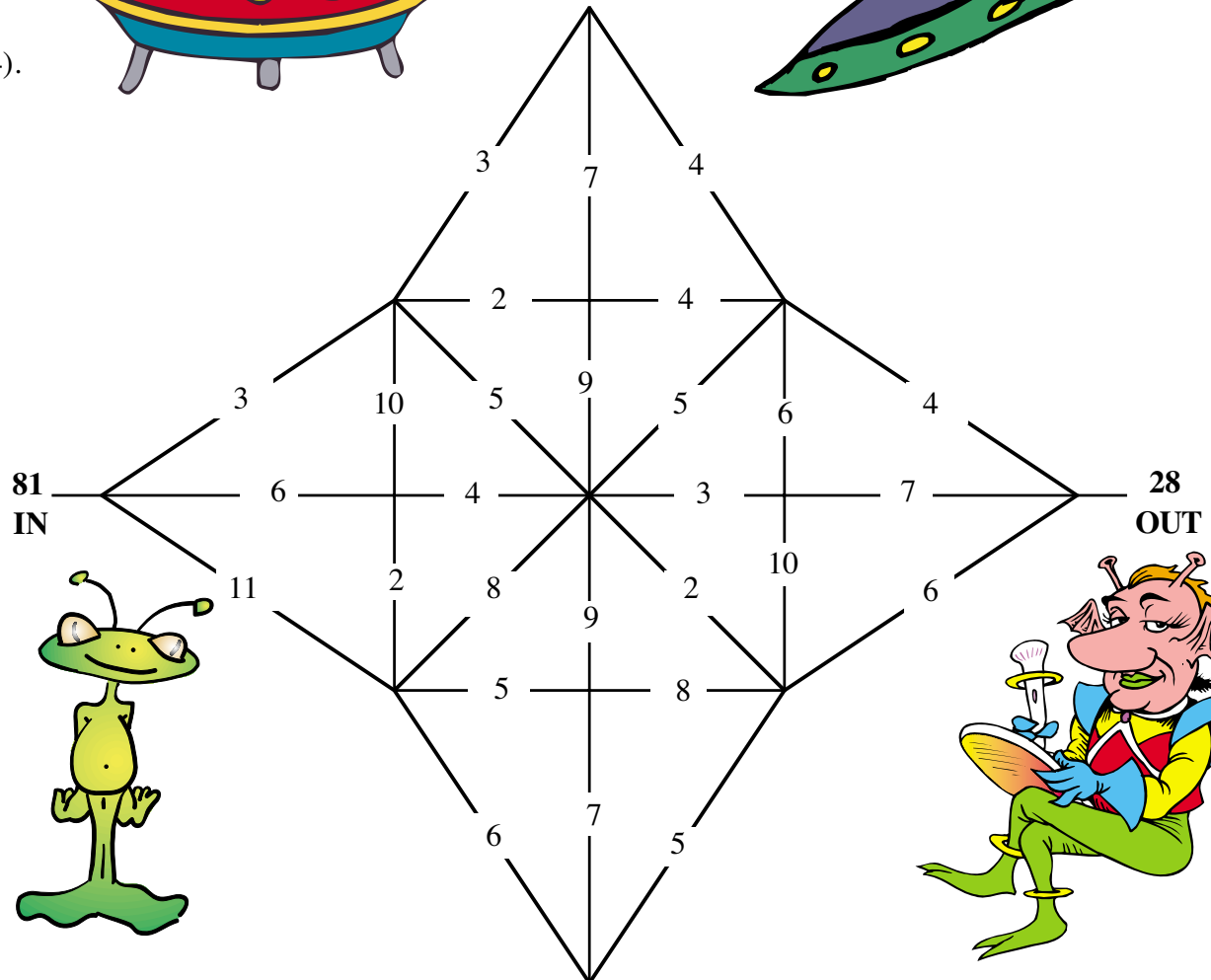
9 OUT

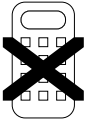
A diamond-shaped maze with numbers at various points. The numbers are: 4 (top), 7 (top-right), 1 (middle-top), 4 (middle-left), 3 (middle-right), 3 (middle), 9 (middle), 4 (middle), 5 (middle), 3 (middle), 3 (middle), 6 (middle), 3 (middle), 7 (middle), 3 (middle), 1 (middle), 9 (middle), 4 (middle), 5 (middle), 4 (middle), 5 (middle), 2 (middle), 8 (middle), 7 (middle), 4 (middle), 2 (middle), 3 (middle), 7 (middle), 4 (middle), 2 (middle), 5 (middle), 2 (middle), 9 (middle), 6 (middle), 5 (middle).

3).



4).

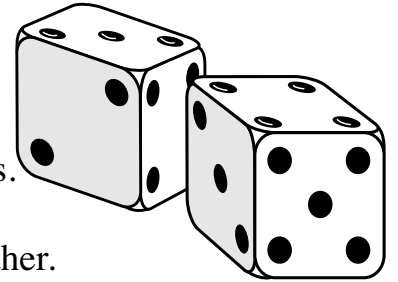




Four in a Line - Addition

Rules.

Each player throws the one dice 3 times.



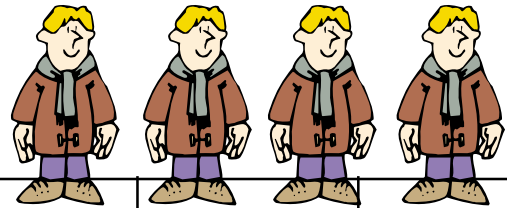
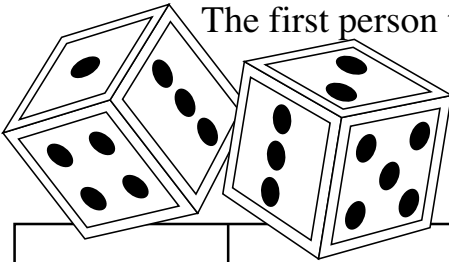
Add these three numbers on the dice together.

You can cover up that number on the grid below with your colour counter.

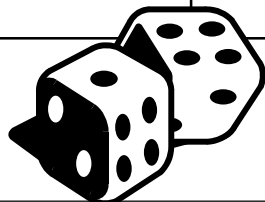
If it is already covered- hard luck !

If that number is on the grid twice you may cover 1 of them only.

The first person to get 4 counters in a line in any direction wins.



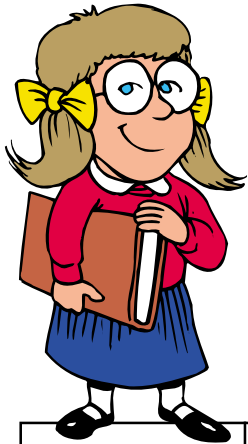
4	11	16	9	7	13
9	10	7	12	18	10
14	3	9	4	8	15
12	16	13	6	11	12
10	8	11	17	14	5





Four in a Line - Subtraction

Pick any 2 numbers from the box below.
Subtract the smaller from the larger number.
Cover up the answer on the big grid below.
The first person to get 4 counters in a line in any direction wins.
A calculator can be used to check answers.



32	59	71	60	83	48	19
45	16	95	58	24	37	

64	23	39	16	55	15
34	47	71	27	38	67
13	29	36	14	50	22
35	11	44	76	24	21
40	28	51	47	63	36
12	43	26	58	46	10

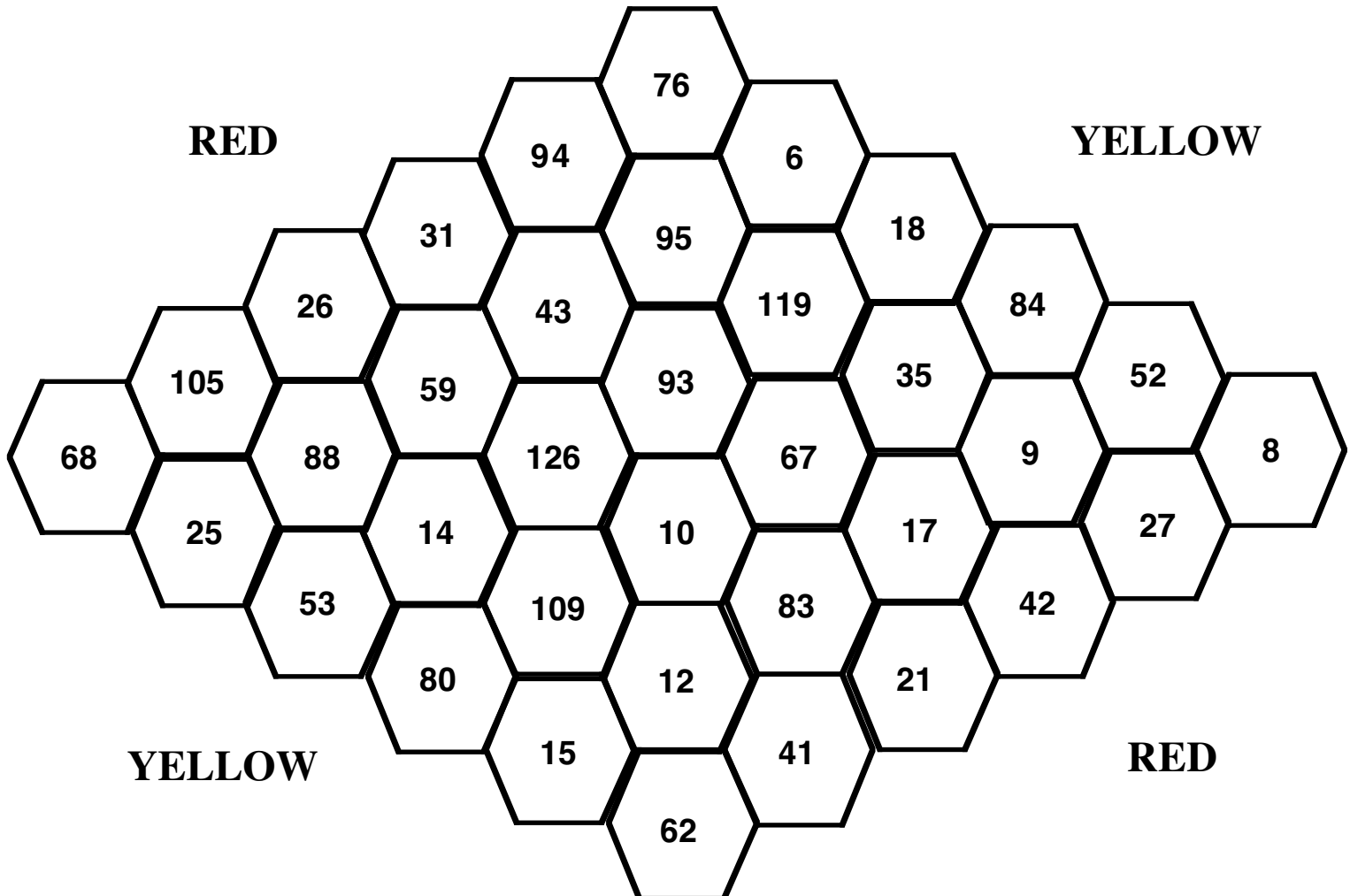


HEX-an Adding and Subtracting Game

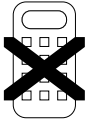
Rules : Two players with red and yellow counters.
 Take it in turn to pick two numbers from the box and **add** them or **subtract** them in your head.
 Say it . The other player checks it on a calculator. If the player is correct they can cover that number with their colour.
 The winner is the first to make a connected path between their two sides of the board.



	68	
16	43	51
25	37	58



Star - Wars.



Both players use the same counter.

One player puts the counter on any of the circles and says it aloud.
The other player slides the counter along one of the lines to another number.

This player adds the number on and says the new total.

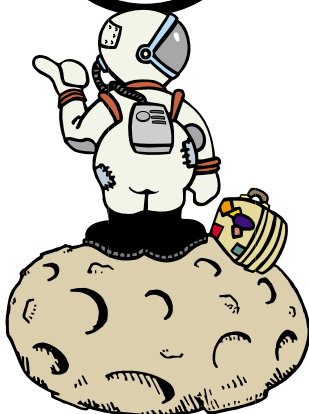
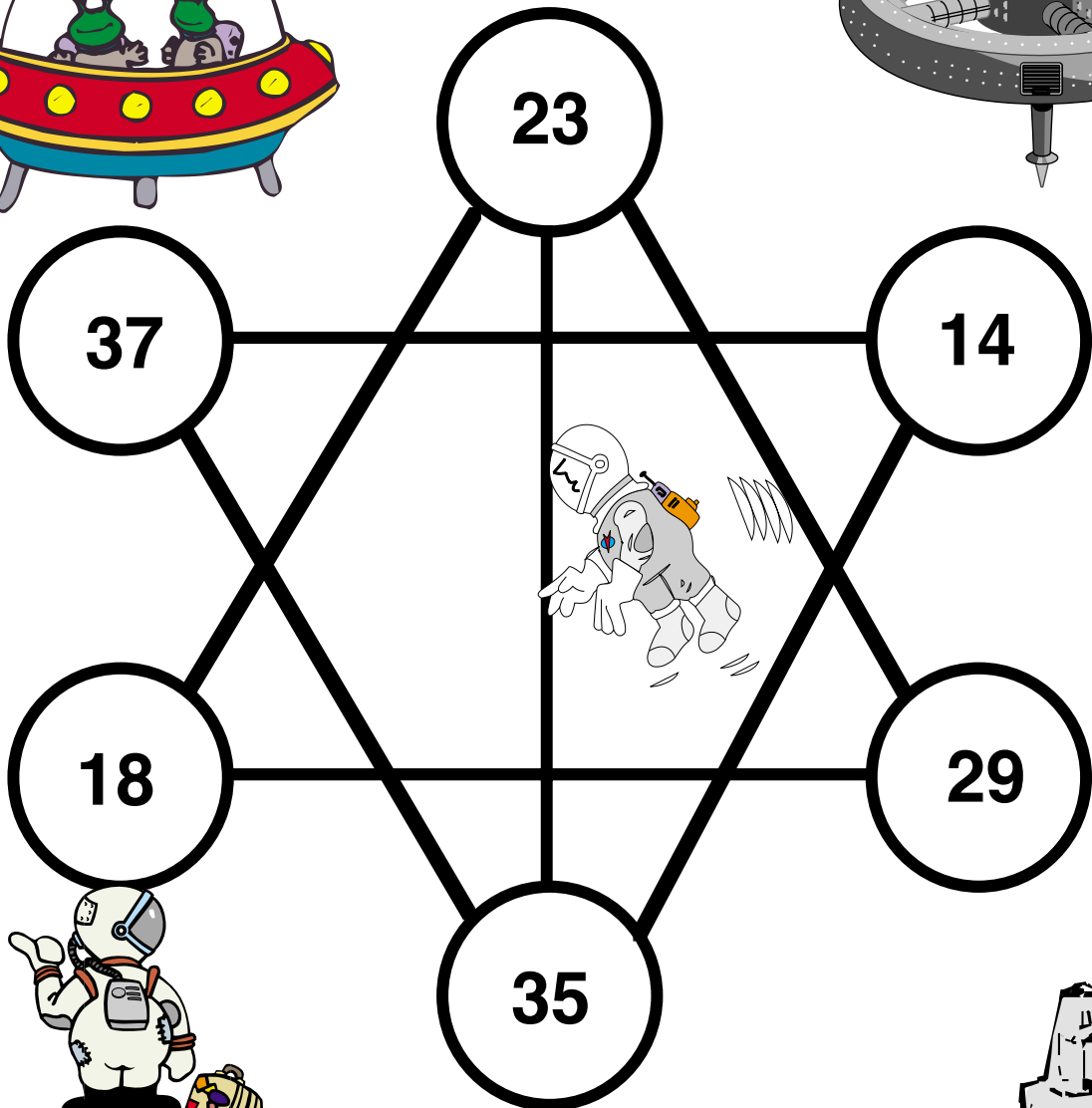
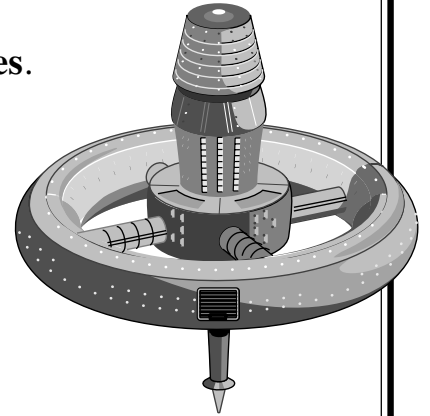
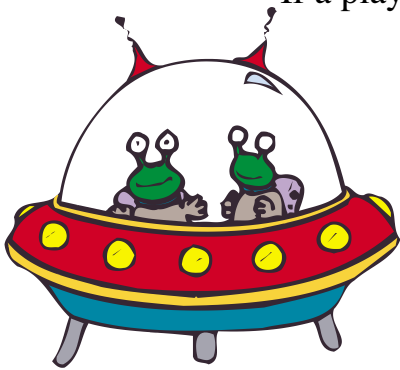
If this is wrong the player loses instantly.

Play continues by each player taking alternate turns.

The game goes on until one player reaches the total of 200.

That person is the winner.

If a player goes **over 200** that player **loses**.





Magic Squares 2.



In a Magic Square the rows, columns and diagonals **all add up** to the same number. This is the **Magic Number**.
Complete the following Magic Squares and find their Magic Numbers.

1).

14	11	8
7		

Magic Number = ____

2).

13	12	17
	14	

Magic Number = ____

3).

9		
	12	10
		15

Magic Number = ____

4).

		25
	22	17
19		

Magic Number = ____

5).

20	15	22
	23	

Magic Number = ____



6).

		25
22	29	21

Magic Number = ____

7).

22		
11		
21		14

Magic Number = ____

8).

27		
	25	24
		23

Magic Number = ____

9).

28	17	24
		18

Magic Number = ____

10).

	27	25
	28	
	29	

Magic Number = ____



11).

		23
	29	
35	15	

Magic Number = ____

12).

23		
34	27	
		31

Magic Number = ____

13).

38	34	30
36		

Magic Number = ____

14).

	35	
37	27	29

Magic Number = ____

15).

32	30	
42		
28		

Magic Number = ____

16).

40		36
	37	

Magic Number = 117

17).

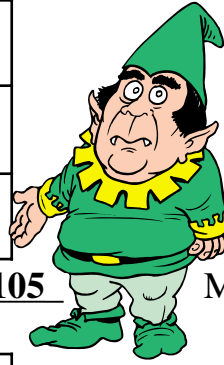
47		
	41	38

Magic Number = 105

18).

35		
	37	
31		

Magic Number = 111



19).

		57
60		56
		61

Magic Number =

20).

	46	58
55		

Magic Number = 138

21).

		55
73	58	61

Magic Number =

22).

		14	25
17	22	13	
	18		24
16		26	

Magic Number =

23).

	20		
18	31	28	17
	19	16	
21			22

Magic Number =

24).

29			26
18			21
	19	20	25
	28		14

Magic Number =

25).

29		24	26
		31	
		19	33
25			22

Magic Number = 102

26).

		31	
11			35
13	27	19	37
39		25	

Magic Number =

27).

21		30	35
34	31	25	
32			26

Magic Number = 114

28).

17		10	29	23
	18	12	11	30
31		19		7
8	27	26		
	9	28		21

Magic Number =

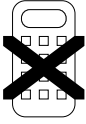


29).

33		23	16	37
	30	19	32	18
15		27		39
34	22	35		
	28	31		21

Magic Number =



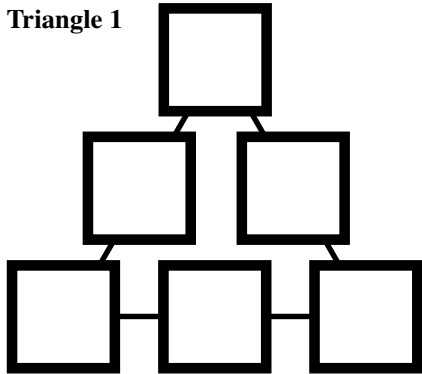


Triangles.



You will need to cut out the numbers at the bottom of this page to start with.
Or you could draw them on squares 15mm x 15mm and then cut those out.

Triangle 1



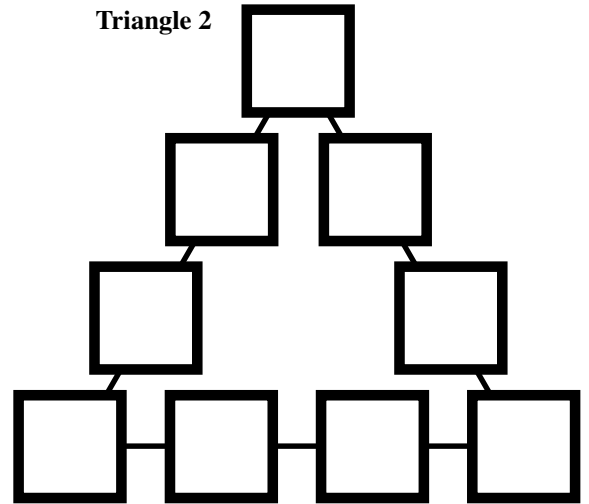
Use only the numbers 1 - 6.
Place them on Triangle 1.

- Move them about until every line adds up to 9, copy this into your book.
- Move them about until every line adds up to 10, copy this into your book.
- Move them about until every line adds up to 11, copy this into your book.
- Move them about until every line adds up to 12, copy this into your book.

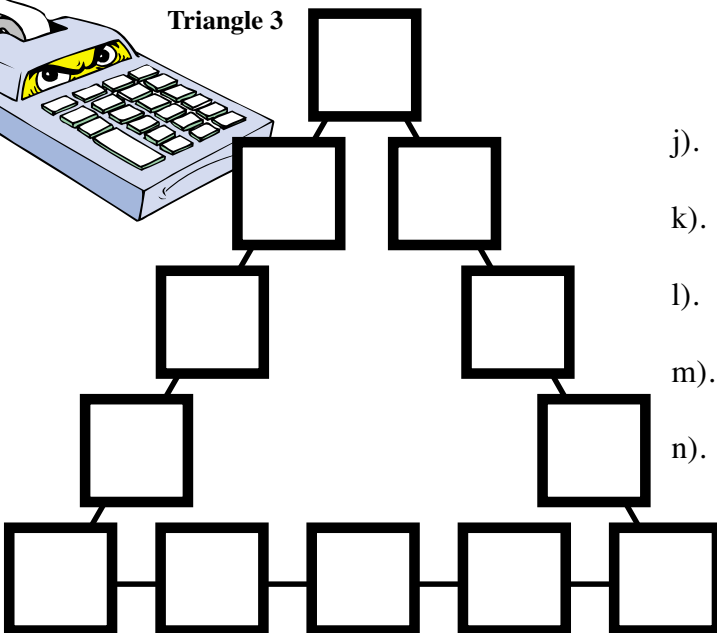
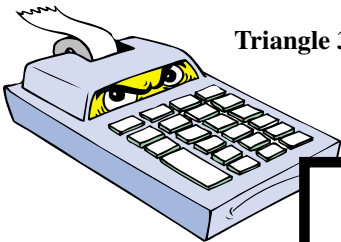
Use only the numbers 1 - 9.
Place them on Triangle 2.

- Move them about until every line adds up to 17, copy this into your book.
- Move them about until every line adds up to 19, copy this into your book.
- Move them about until every line adds up to 20, copy this into your book.
- Move them about until every line adds up to 21, copy this into your book.
- Move them about until every line adds up to 23, copy this into your book.

Triangle 2



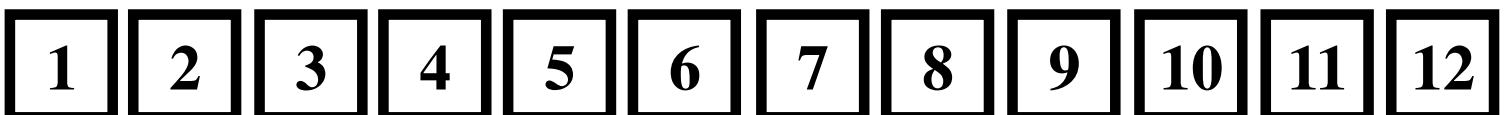
Triangle 3

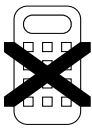


Use the numbers 1 - 12.
Place them on Triangle 3.

- Move them about until every line adds up to 28, copy this into your book.
- Move them about until every line adds up to 29, copy this into your book.
- Move them about until every line adds up to 30, copy this into your book.
- Move them about until every line adds up to 34, copy this into your book.
- Move them about until every line adds up to 36, copy this into your book.

If you finish early find out what other numbers the lines in this last triangle can add up to.



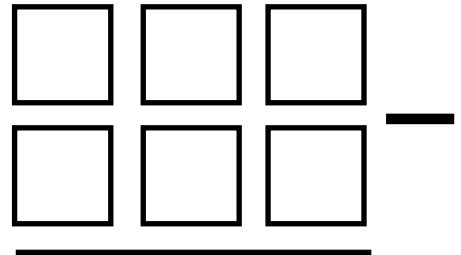


Boxes. Dice Games.



Game 1.

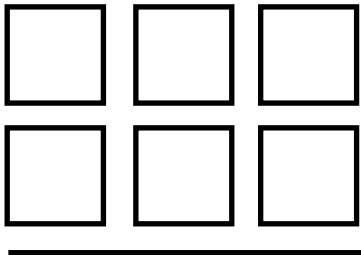
Each player has a playing grid like this one.
 Copy this into your books.
 Decide which variation of the game you are playing from below.
 Take it in turns to roll the die.
 After each roll put the number into one of your boxes.
 Continue until all the boxes are full.
 Work out the subtraction.
 Play it 5 times. The one who wins most games is the winner.



- Variation 1. The winner is the one with the **biggest** number.
- Variation 2. The winner is the one with the **smallest** number.
- Variation 3. The winner is the one with the **smallest** odd number.
- Variation 4. The winner is the one with the **biggest** even number.



Game 2.

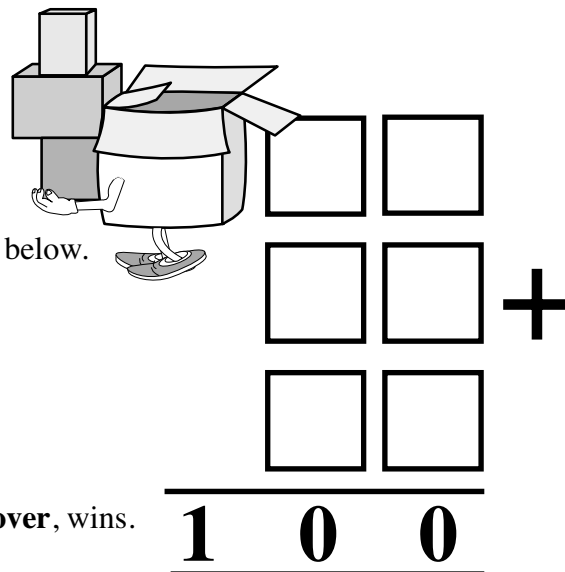


Each player has a playing grid like this one.
 Copy this into your books.
 Decide which variation of the game you are playing from below.
 Take it in turns to roll the die.
 After each roll put the number into one of your boxes.
 Continue until all the boxes are full.
 Work out the addition.
 Play it 5 times. The one who wins most games is the winner.

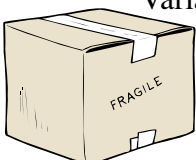
- Variation 1. The winner is the one who is **closest to 450**.
- Variation 2. The winner is the one who is **closest to 500, but not above**.
- Variation 3. The winner is the one who is **closest to 300, but not below**.

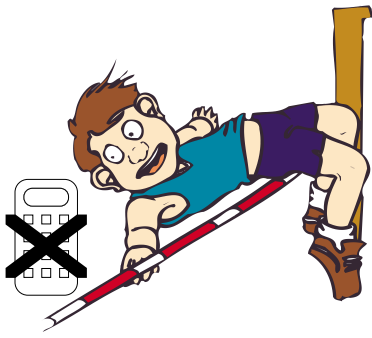
Game 3.

Each player has a playing grid like this one.
 Copy this into your books.
 Decide which variation of the game you are playing from below.

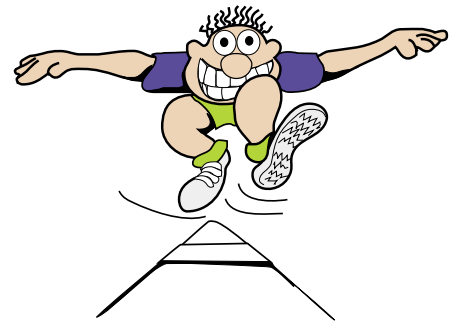


- Variation 1. Take it in turns to roll the die.
Continue until all the boxes are full.
The one who is closest to 100 wins.
- Variation 2. Take it in turns to roll the die.
Continue until all the boxes are full.
The one who is closest to 100, **but not over**, wins.
- Variation 3. Take it in turns to roll the die.
You can choose **not** to put the number in your grid.
The first to make their grid add up to exactly 100 wins.





Jump 10

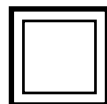


Roll the dice.

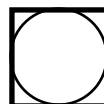
Move forward that many places.

If you land on the shaded squares you either jump forward or backwards 10 places.

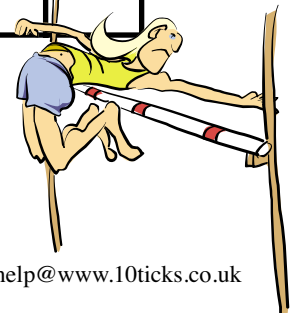
Start	1	2	3	4	5	6	7	8	9	10	11
											12
24	23	22	21	20	19	18	17	16	15	14	13
25											
26	27	28	29	30	31	32	33	34	35	36	37
											38
50	49	48	47	46	45	44	43	42	41	40	39
51											
52	53	54	55	56	57	58	59	60	61	62	63
											64
76	75	74	73	72	71	70	69	68	67	66	65
77											
78	79	80	81	82	83	84	85	86	87	88	89
											90
											100
											99
											98
											97
											96
											95
											94
											93
											92
											91



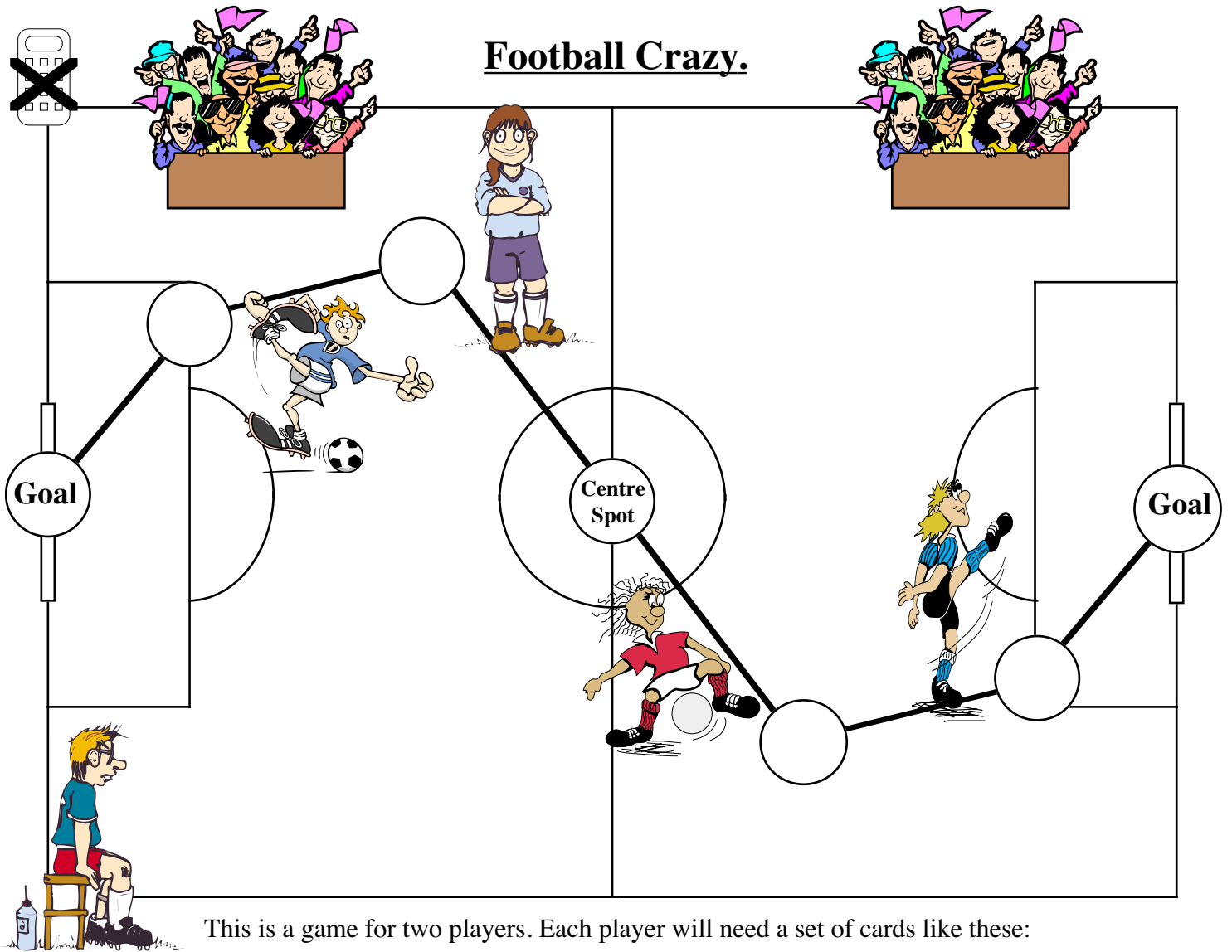
Jump back 10



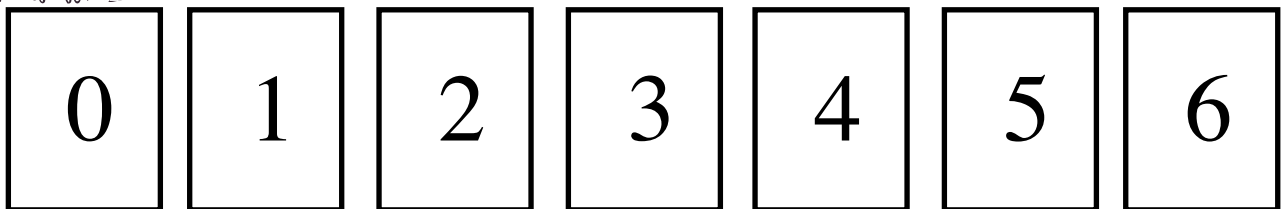
Jump forward 10



Football Crazy.



This is a game for two players. Each player will need a set of cards like these:



The ball (counter) is placed on the centre spot. Each player has 60 points.

These points are used to tackle.

To tackle, each player places one of the above cards in the middle.

When both are in the middle the cards are turned over.

The number on the cards is the number of points they will put into the tackle - the bigger wins.

These points are deducted from the overall scores whether the player wins the tackle or not.

The ball is moved in the direction of the winning tackle.

When a goal is scored the ball is replaced on the centre circle and the game continues.

When **both** players have used up all their points the game ends.

Keep track of the points players have left using a table like this one :

Player 1		Player 2	
Pts for tackle	Pts left	Pts for tackle	Pts left
—	60	—	60

Other Variations :

- the winner is the first person to score a goal;
- each player starts with 100 points;
- add other scoring cards to the game;
- let the pupils make up their own variations!





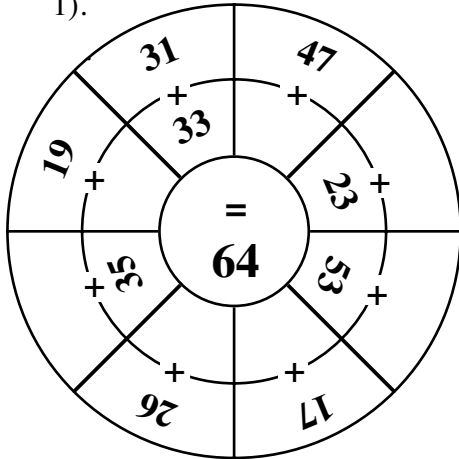
Wheels.

Start in the outer ring and read inwards to make a sum. The first sum in the first wheel has been done for you. Fill in all the missing gaps.

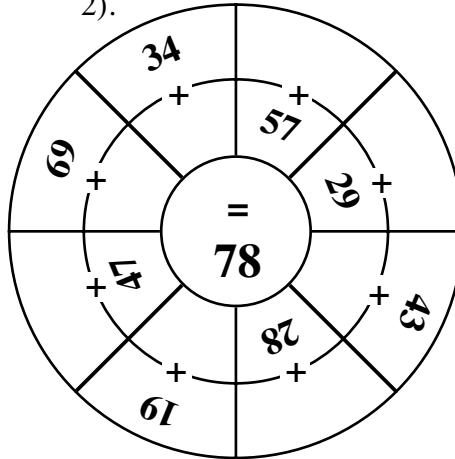


Addition Wheels.

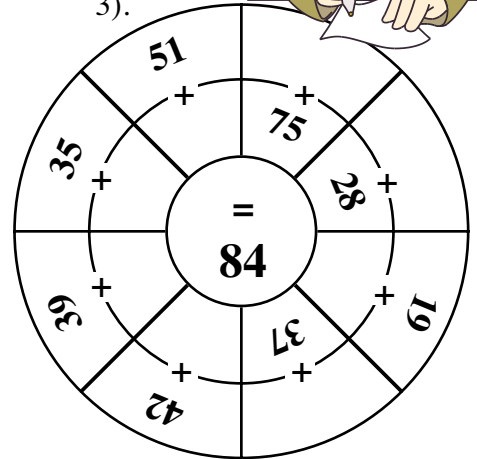
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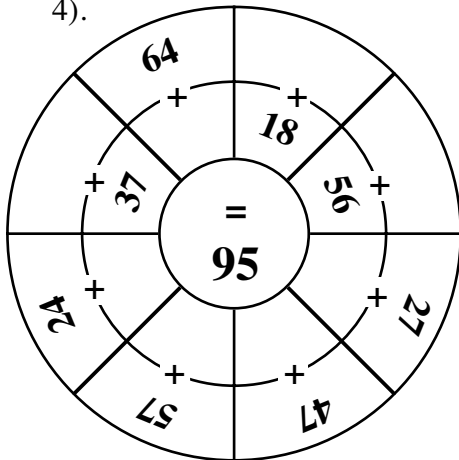
2).



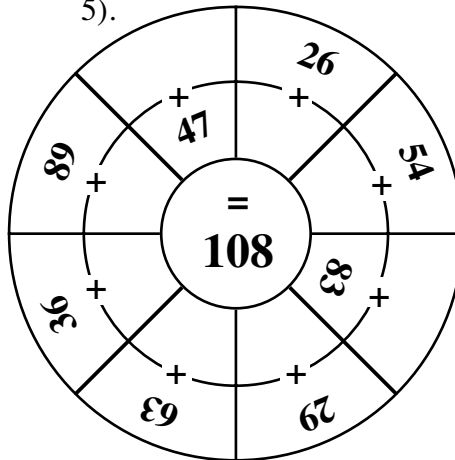
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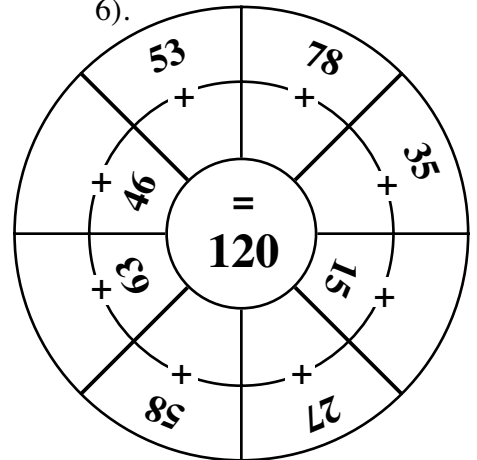
4).



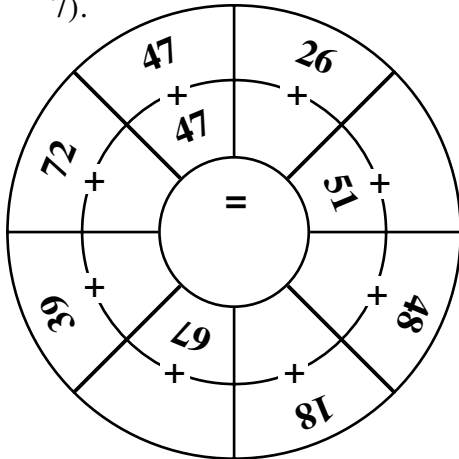
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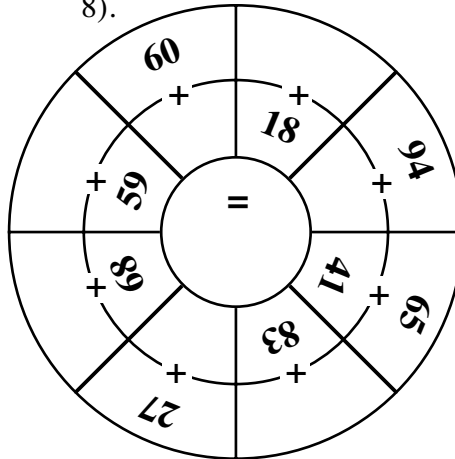
6).



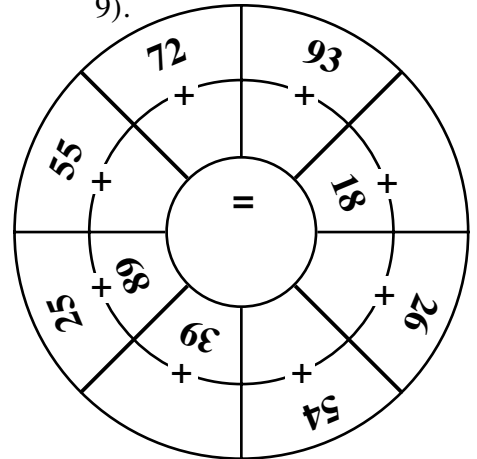
7).



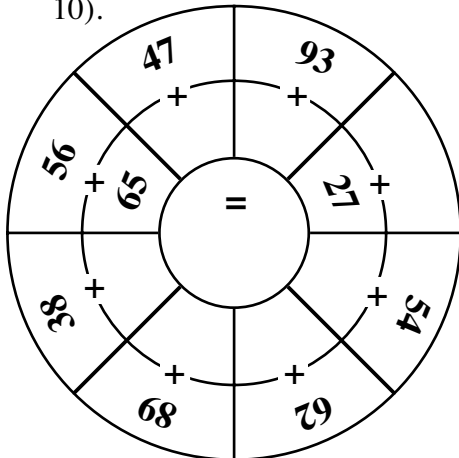
8).



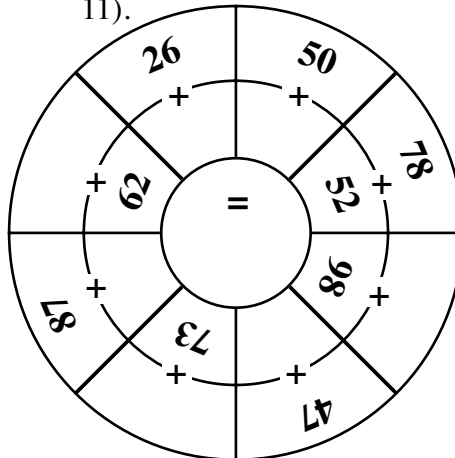
9).



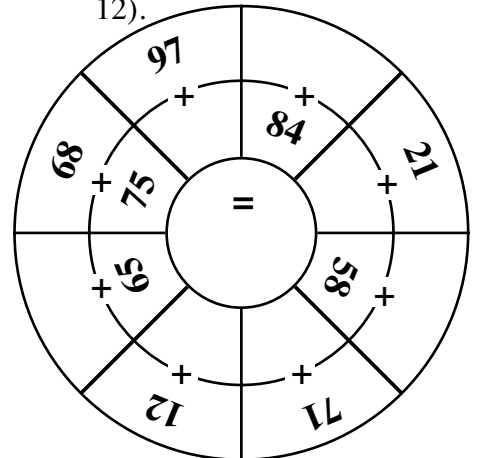
10).



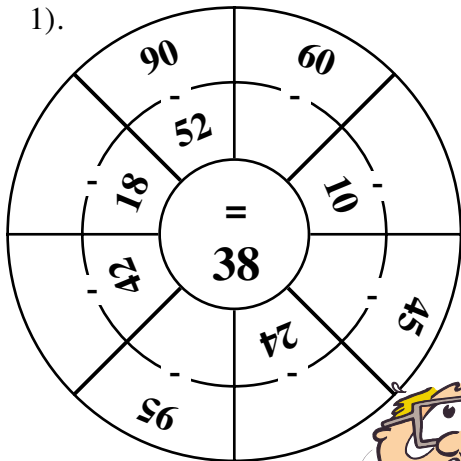
11).

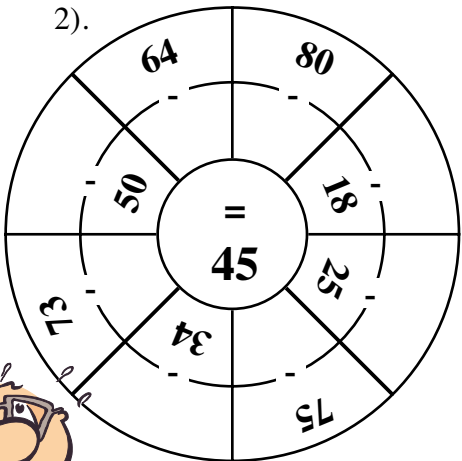


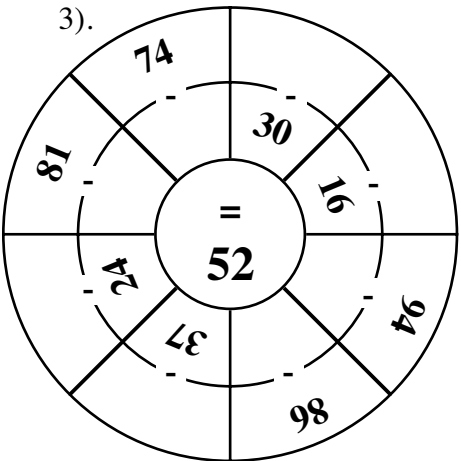
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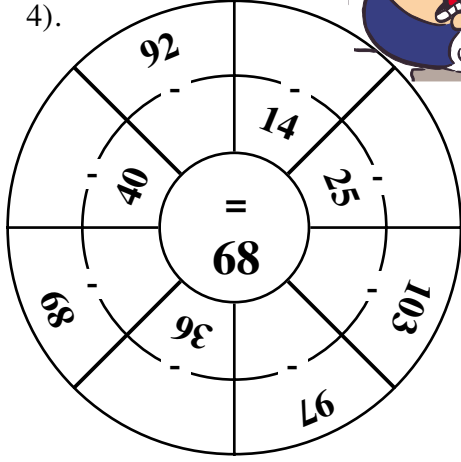


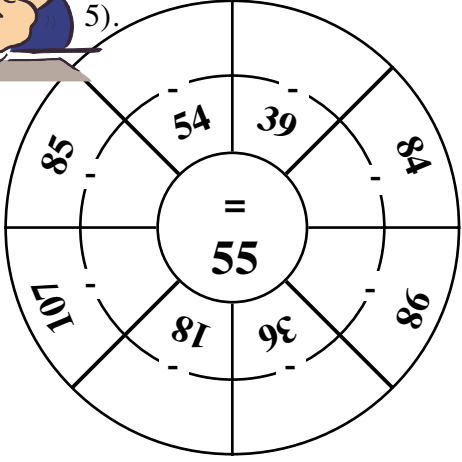
Subtraction Wheels

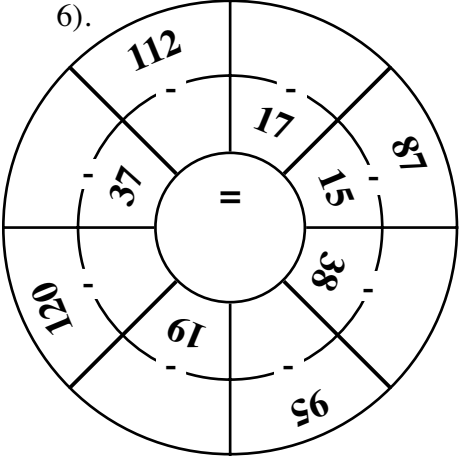
1). 

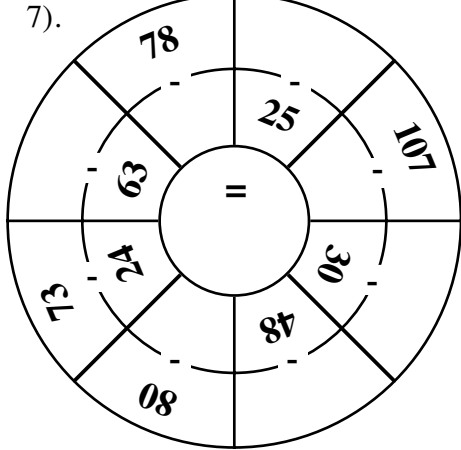
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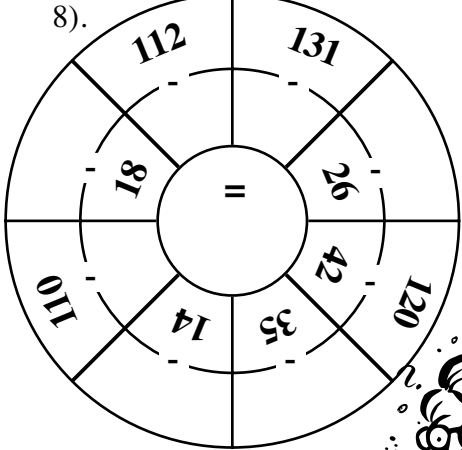
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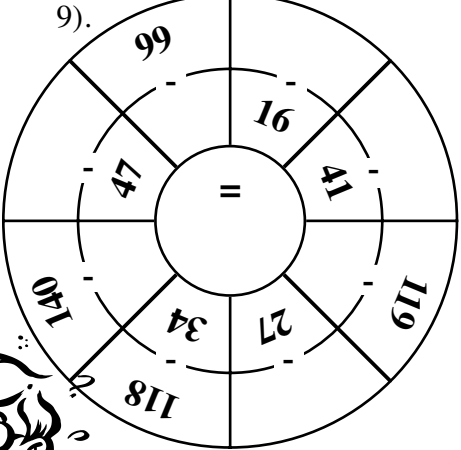
4). 

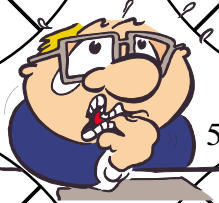
5). 

6). 

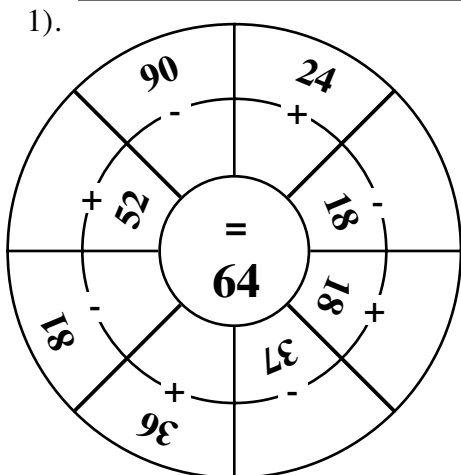
7). 

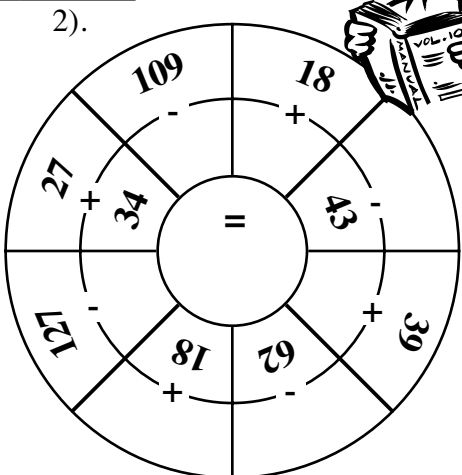
8). 

9). 



Addition and Subtraction Wheels

1). 

2). 

3). 