

ADDITION AND SUBTRACTION

CONTENT DOMAIN REFERENCES:
C2, C4, C8


KS2 SATS

PRACTICE QUESTIONS BY TOPIC

1

Write in the missing number.

[2015]


$$\underbrace{1 + 10}_{11} + \boxed{89} = 100$$

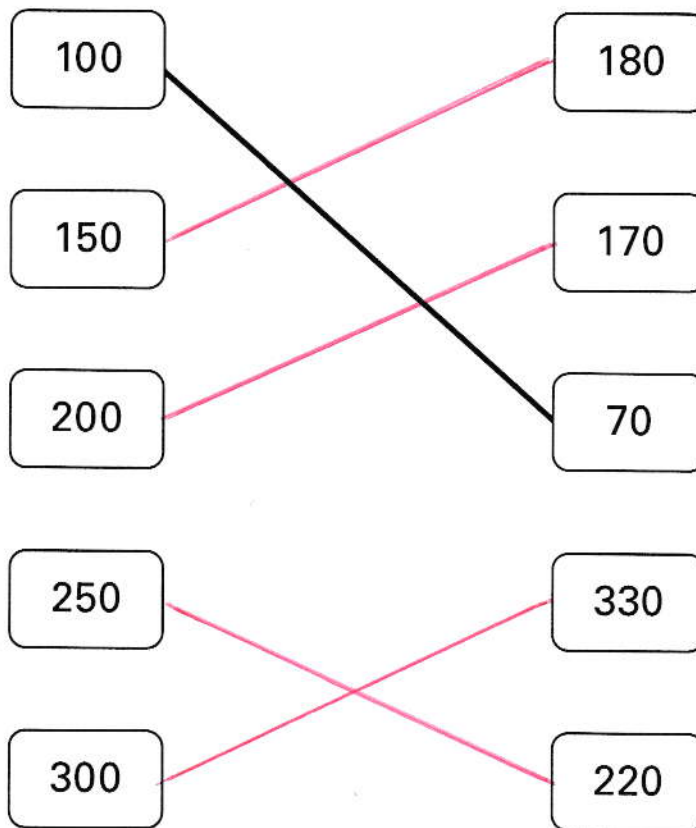
[1 mark]

2

Draw lines to join **all the pairs** of number cards which have a **difference of 30**

[2005]

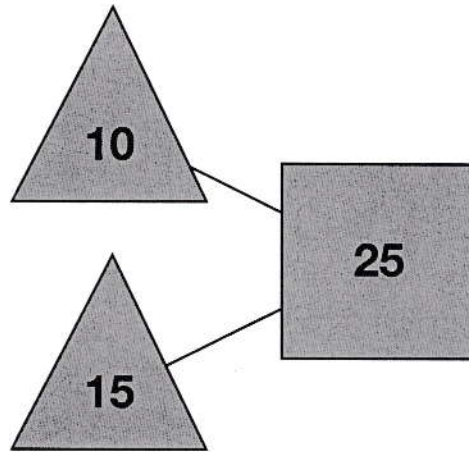
One has been done for you.



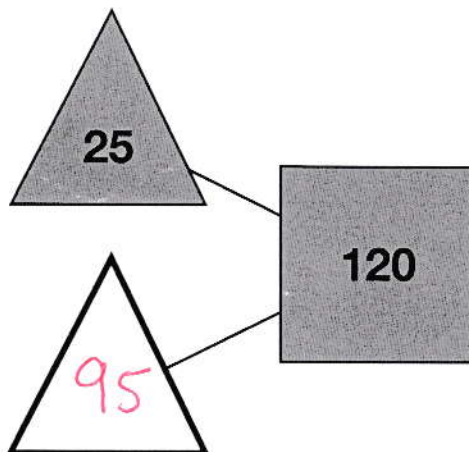
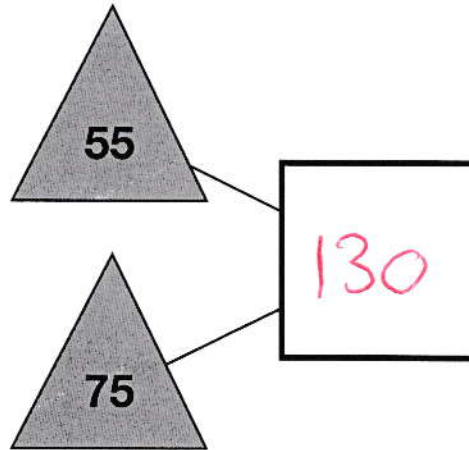
[2 marks]

3 The numbers in the two triangles add up to the number in the square.

[2013]



Using the **same** rule, write in the missing numbers.

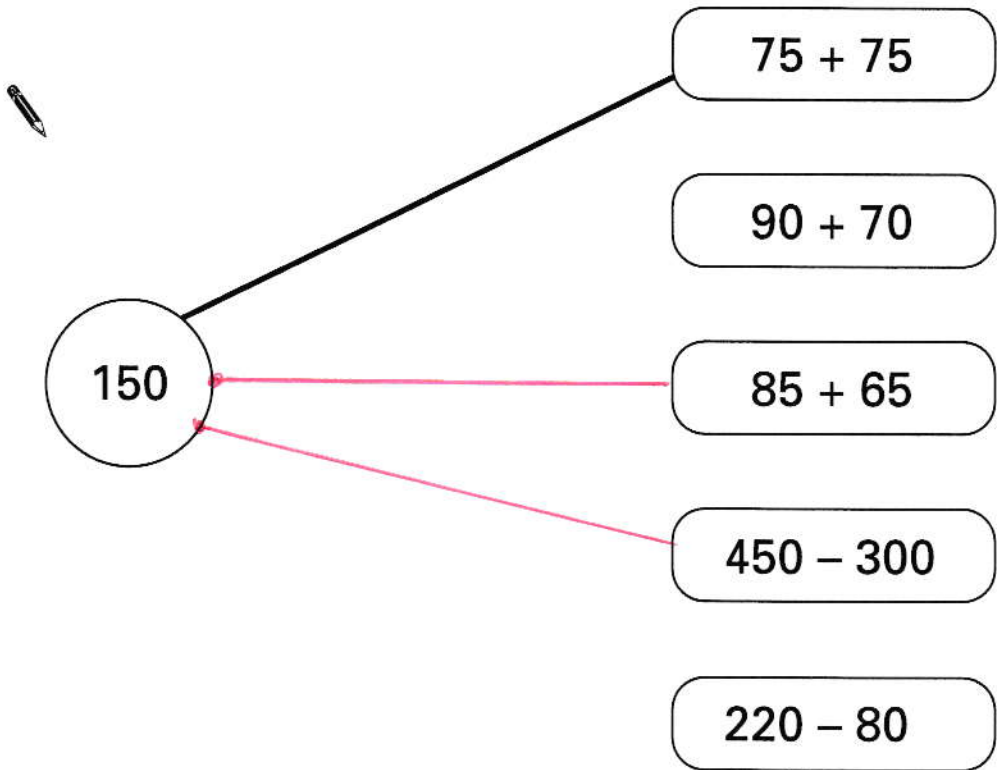


[2 marks]

4

[2002]

Draw lines to join the circle to **two more** number cards which make **150**



[1 marks]

5

[2016S]

Write the missing number.

One is done for you.

180 $\xrightarrow{\text{is 20 more than}}$ 160

257 $\xrightarrow{\text{is 20 more than}}$ 237

[1 mark]

6

Circle **three** numbers which **add** to make **190**

[2001]



10

30

50

70

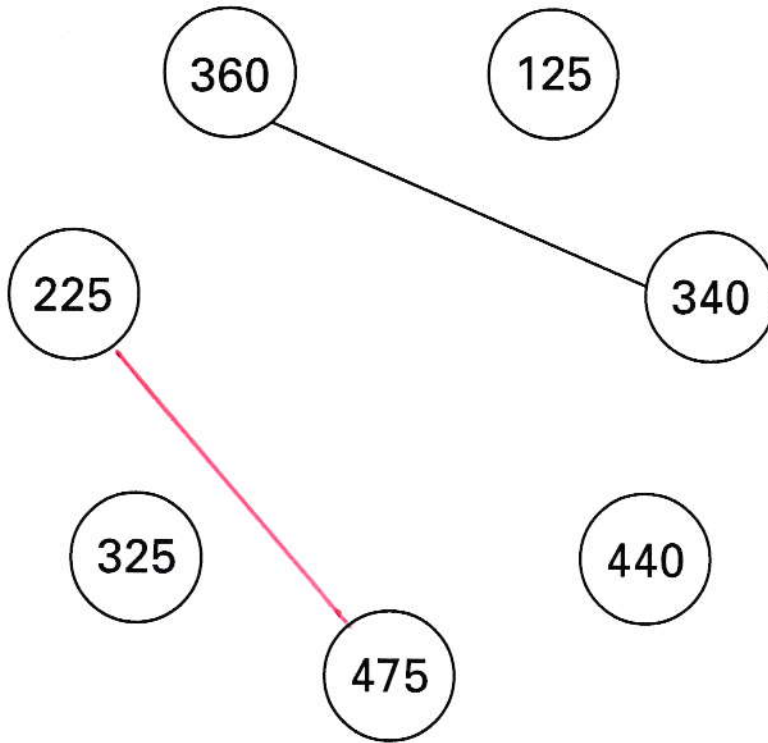
90

[1 mark]

7

Draw a line to join **two** other numbers which have a **total** of **700**

[2000]

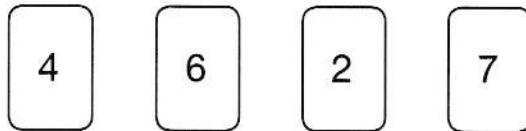


[1 mark]

8

Here are four digit cards.

[2009]



Use all four digit cards to make this sum correct.

$\begin{array}{|c|c|} \hline 2 & 4 \\ \hline \end{array} + \begin{array}{|c|c|} \hline 7 & 6 \\ \hline \end{array} = 100$

[ALSO,
74 + 26]

11ST

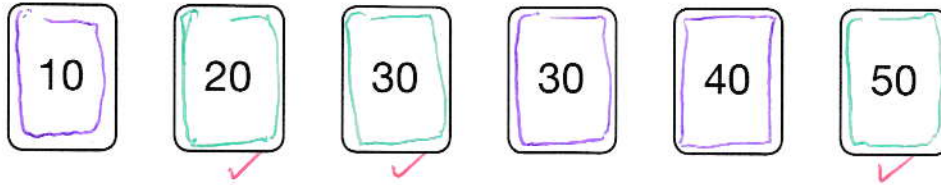
LAST DIGIT IS ZERO

[1 mark]


9

Here are six number cards.

[2011]



Use **all** the number cards to complete the two sums below.

 $20 + 30 = 50$

$10 + 30 = 40$

[1 marks]

10

Circle **one** number in **each** box to make a total of 1000

[2007]

150 250 350 450

200 400

150 250 350 450

I SPOTTED THIS ONE FIRST!

ALSO WORKS

[1 mark]

11

Circle **three** numbers that add to make a **multiple of 10**

[2005]


 11 12 13 14 15 16 17 18 19

[LOTS OF OTHER POSSIBILITIES!]

[1 mark]

12

Circle the numbers that add up to 100

[2005]


 64 32 16 8 4 2 1

[1 mark]

13

Here are five digit cards.


[2003]







Use all five digit cards once to make this sum correct.



1	
2	4
3	5
+	
6 0	

[LOTS OF OTHER POSSIBILITIES!]

LAST DIGIT IS ZERO

SO EITHER $1 + 4 + 5$

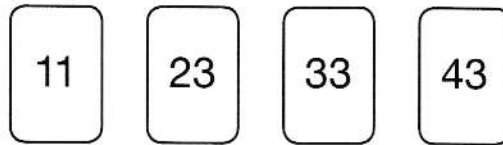
OR $2 + 3 + 5$

[1 mark]

14

Amy chooses two of these cards.

[2010]



$$11 + 43 = 54 \rightarrow 50$$

$$23 + 43 = 66 \rightarrow 70$$

$$23 + 33 = 56 \rightarrow 60$$



She adds the numbers on her two cards together.
She rounds the result to the nearest 10

Her answer is 60

Which two cards did Amy choose?

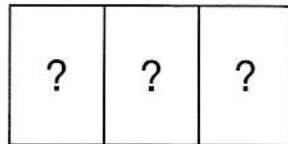


[1 mark]

15

What's my number?

[2010]

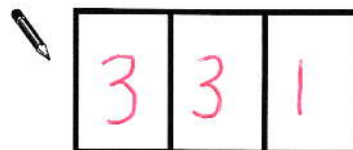


It is a three-digit number.

All the digits are odd.

The digits add up to 7

What could my number be?



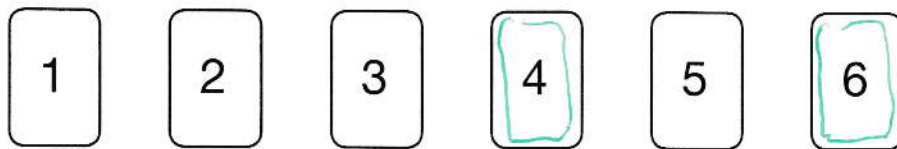
[ALSO 313 OR 133]


[1 mark]

16

Here are six digit cards.

[2013]

Use **four** of the cards to make this addition correct.

 $\begin{array}{|c|c|} \hline 1 & 4 \\ \hline \end{array} + \begin{array}{|c|c|} \hline 2 & 6 \\ \hline \end{array} = 40$

[Handwritten: A box labeled '1ST' with arrows pointing to the 4 and 6 in the tens place.]

[ALSO 24 + 16]

LAST DIGIT IS ZERO!

[1 mark]

17

Write in the missing numbers.

[2000]

 $150 + \boxed{350} = 500$

$172 - \boxed{112} = 60$


[2 marks]

18

The sum of two numbers is 100

[2007]

Write in the missing digits.

 $\begin{array}{|c|c|} \hline 3 & 7 \\ \hline \end{array} + \begin{array}{|c|c|} \hline 6 & 3 \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 1 & 0 & 0 \\ \hline \end{array}$

ENDS IN ZERO!

[1 mark]

19

Write the three missing digits to make this **addition** correct.

[2016]

$$\begin{array}{r}
 15\boxed{1} \\
 + 4\boxed{6}4 \\
 \hline
 \boxed{6}15
 \end{array}$$

Handwritten annotations:

- 'CARRY 1' (pink box) with arrows pointing to the carry '1' above the tens column and the '6' in the hundreds column of the result.
- '5+6=11' (pink) with an arrow pointing to the '1' in the tens column of the result.
- 'LAST DIGIT 1ST' (green) with an arrow pointing to the '5' in the units column of the result.

[2 marks]

20

Circle **three** numbers that add to make 750

[2014]


450
350
250
150
50

[ALSO 350 + 250 + 150]

[1 mark]


21

Each missing digit in this sum is a **9** or a **1**

[2006]

Write in the missing digits.

[THERE ARE OTHER CORRECT ANSWERS, TOO!]


99 + 91 + 11 = 201

Handwritten notes:

- 'MAKE LAST DIGIT FIRST' (green cloud) with an arrow pointing to the '1' in the units column of the result.


[2ND] 9+1+1=11 [NEED 190 MORE → 19 TENS!]

[1 mark]

22

Write in the missing number.

[2000]


60 + 99 + 181 = 340

Handwritten note: 159 (under 60 + 99)

[1 mark]

23

This table shows the heights of three mountains.

[2017]

Mountain	Height in metres
Mount Everest	8,848
Mount Kilimanjaro	5,895
Ben Nevis	1,344

How much higher is Mount Everest than the combined height of the other two mountains?

Show your method

Handwritten calculation on grid paper:

$$\begin{array}{r}
 5895 \\
 + 1344 \\
 \hline
 7239 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 8848 \\
 - 7239 \\
 \hline
 1609 \\
 \hline
 \end{array}$$

The result 1609 is boxed.

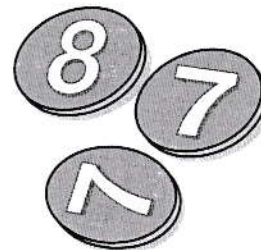
[2 marks]

24

Dev has three discs.

[2011]

Each disc has a 7 on one side and an 8 on the other side.



He spins all the discs and adds the three scores together.

How many **different totals** can he get using the three discs?

$$\begin{aligned}
 7 + 7 + 7 &= 21 \\
 7 + 7 + 8 &= 22 \\
 7 + 8 + 8 &= 23 \\
 8 + 8 + 8 &= 24
 \end{aligned}$$

4

[1 mark]

This table shows the number of people living in various towns in England.

[2016]

Town	Population
Bedford	82,448
Carlton	48,493
Dover	34,087
Formby	24,478
Telford	166,640

What is the **total** of the numbers of people living in Formby and in Telford?

$$\begin{array}{r}
 166640 \\
 + 24478 \\
 \hline
 191118 \\
 \hline
 \end{array}$$

191,118

What is the **difference** between the numbers of people living in Bedford and in Dover?

$$\begin{array}{r}
 7 \cancel{8} 2 \overset{3}{4} 4 8 \\
 - 34087 \\
 \hline
 48361 \\
 \hline
 \end{array}$$

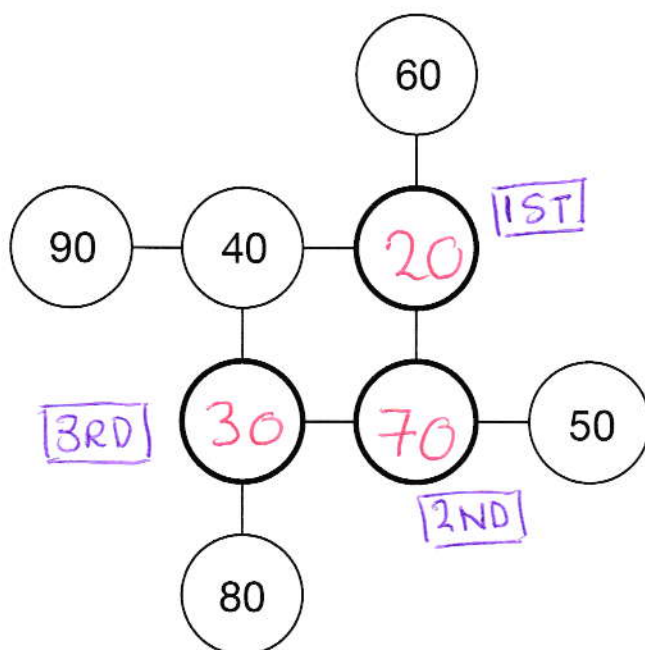
48,361

[2 marks]

26

Complete this diagram so that the three numbers in each line add up to 150

[2006]



[2 marks]

27

The table shows the cost of a new football kit.

[2013]

Item	Cost
Shirt	£8.75
Shorts (1 pair)	£5.95
Socks (1 pair)	£4.15



Altogether, how much does the complete football kit cost?

$$\begin{array}{r}
 875 \\
 + 595 \\
 \hline
 1470 \\
 \hline
 11
 \end{array}
 \quad
 \begin{array}{r}
 1470 \\
 + 415 \\
 \hline
 1885 \\
 \hline
 \end{array}$$

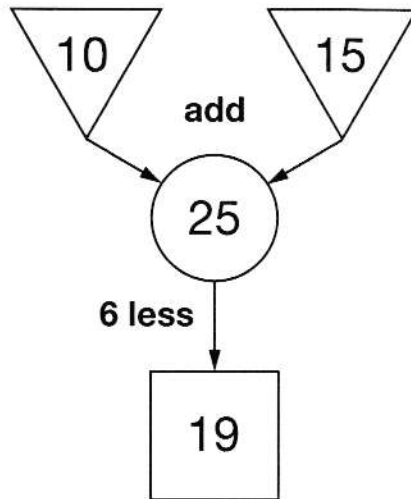
£ 18.85

[1 mark]

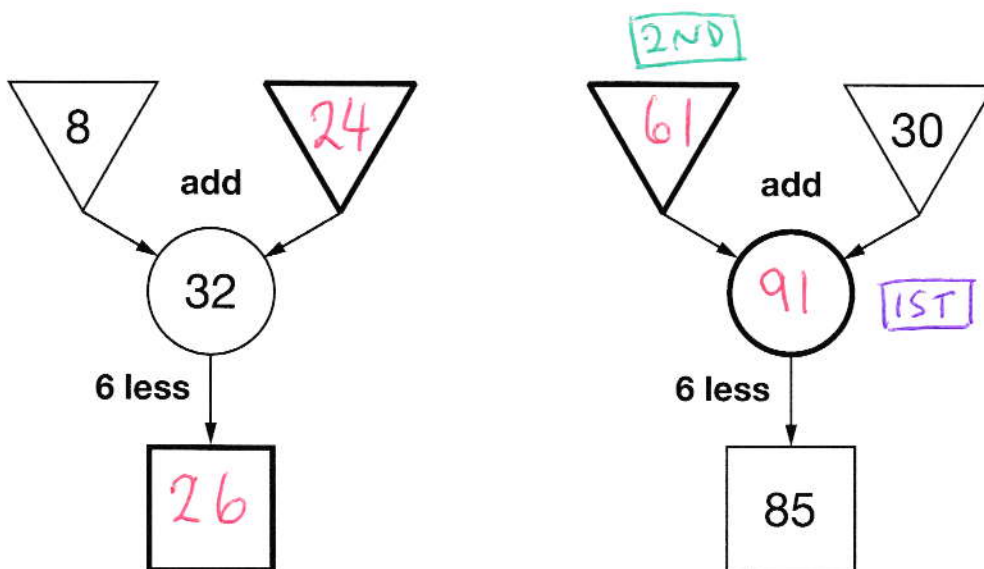
In this diagram, the numbers in the triangles add together to make the number in the circle.

[2015]

The number in the square is 6 less than the number in the circle.



Write the four missing numbers in these diagrams.



[2 marks]

29

In these calculations, each missing sign is a $+$ or a $-$

[2014]

Write the missing signs in the circles.



$$8 \text{ (} - \text{) } 7 \text{ (} + \text{) } 6 \text{ (} - \text{) } 5 = 2$$

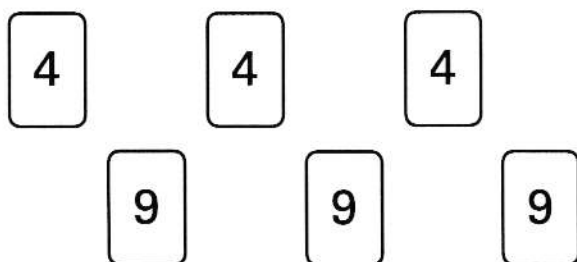
$$8 \text{ (} + \text{) } 7 \text{ (} - \text{) } 6 \text{ (} - \text{) } 5 = 4$$

[2 marks]

30

Here are some number cards.

[2001]

Use **five of the number cards** to make this correct.

$$\begin{array}{r}
 \boxed{4} \quad \boxed{9} \quad \boxed{9} \\
 + \quad \quad \boxed{4} \quad \boxed{9} \\
 \hline
 \boxed{5} \quad \boxed{4} \quad \boxed{8} \\
 \hline
 \end{array}$$

START BY MAKING
THE UNITS,
I TRIED $4+4=8$,
BUT IT DIDN'T
WORK SO I KNEW
IT HAD TO
BE $9+9=\underline{\underline{18}}$

31

Write **two numbers**, each **greater than 100**, to complete this subtraction.

[2000]

$$\begin{array}{|c|c|c|} \hline 3 & 0 & 9 \\ \hline \end{array} - \begin{array}{|c|c|c|} \hline 1 & 0 & 1 \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 2 & 0 & 8 \\ \hline \end{array}$$

[MANY OTHER POSSIBLE ANSWERS!]

[1 mark]

32

The four sums below can be completed using only the numbers 1 to 8

[2011]

Use each number **once** to complete the sums.

One sum has been done for you.

1 ✓ 2 ✓ 3 ✓ 4 ✓ ~~5~~ ~~6~~ 7 ✓ 8 ✓

$$1 + \boxed{5} + \boxed{6} = 12$$

$$\begin{array}{l} \text{pencil} \\ 2 + \boxed{3} + \boxed{7} = 12 \end{array}$$

$$3 + \boxed{1} + \boxed{8} = 12$$

$$6 + \boxed{2} + \boxed{4} = 12$$

[2 marks]

A book has five stories in it.

[2010]

This is the contents page.

Contents	
	page
Rocket Ship	5
Night Journey	17
Secret Palace	25
Jack	41
Deep Water	59
END	68

Handwritten annotations in green:

- Brackets on the right side of the table indicate page ranges:
 - Rocket Ship to Night Journey: 12 pages
 - Night Journey to Secret Palace: 8 pages
 - Secret Palace to Jack: 16 pages
 - Jack to Deep Water: 18 pages
 - Deep Water to END: 9 pages

Deep Water finishes on page 68

Which is the longest story?

 JACK [18 PAGES]

[1 mark]

34

Here is a number sentence.

[2006]

$$\boxed{\quad ? \quad} + 27 > 85$$

Circle **all** the numbers below that make the number sentence correct.

30

40

50

60

70

[1 mark]

35Write the four missing digits to make this **addition** correct.

[2016S]

WORK THIS WAY ←

5	6	2	8	
				+
3	3	9	1	← <i>START HERE</i>
9	0	1	9	
	↓	↓		

[1 mark]

36

Write in the missing digits.

[2002]

THE CARRIED DIGIT!

4	6	4	+	3	8	7	=	8	5	1
---	---	---	---	---	---	---	---	---	---	---

CARRY '1'

$4 + 7 = 11$

$6 + 8 + 1 = 15$

2ND

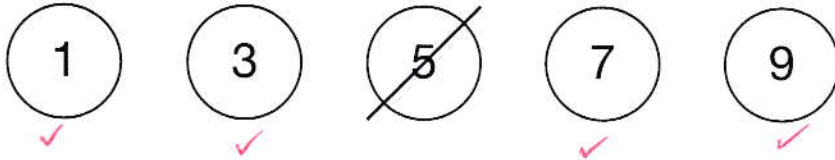
1ST

[1 mark]

37

Here are five number discs.

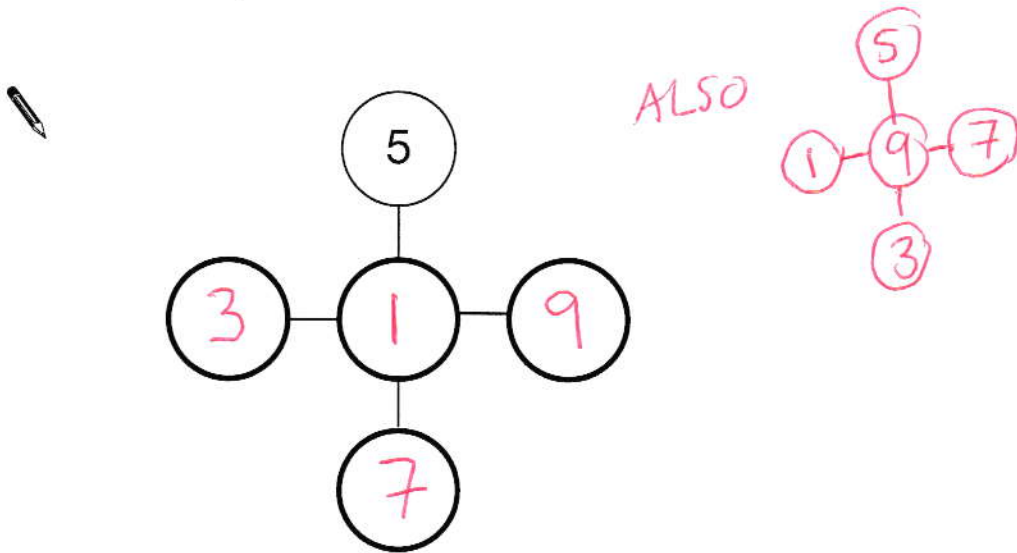
[2013]



Look at the cross pattern below.

Use each disc **once** so that the total across is the same as the total down.

One has been done for you.



[1 mark]

38

Write the two missing digits.

[2015]

[1 mark]

39

Write numbers in the boxes to make this calculation correct.

[2014]

$$50 - \boxed{10} = \boxed{30} + 10$$

[LOTS OF OTHER ANSWERS]

[1 mark]

40

Three **different** numbers add up to 40

[2010]

The numbers are all **even**.

Each number is less than 20

Write what the three **different** numbers could be.

$$\boxed{18} + \boxed{16} + \boxed{6} = 40$$

[LOTS OF OTHER ANSWERS]

[1 mark]

41

Write in what the missing numbers could be.

[2002]

$$170 + \boxed{10} = 220 - \boxed{40}$$

[LOTS OF OTHER ANSWERS]

[1 mark]

42

Write the **largest** whole number to make this statement true.

[2004]

$$50 + \boxed{22} < 73$$

[1 mark]



Seb says,

'All three numbers must be even numbers.'

Is Seb correct?
Circle **Yes** or **No**.

 Yes / No

Explain how you know.

TWO OF THE NUMBERS MIGHT
BE ODD BECAUSE $ODD + ODD = EVEN$
EXAMPLE NUMBERS ARE:

$$15 + 25 + 10$$

TWO ODD NUMBERS

[1 mark]