

SAT style questions adding and subtracting numbers

Y4

Name: _____

Class: _____

Date: _____

Time:

Marks:

Comments:

1.

Some children vote for their favourite ice-cream flavour.

Ice-cream flavour	Number of children
vanilla	87
chocolate	154
strawberry	?
mint	38
Total	402

How many children vote for **strawberry**?

Show
your
method

children

2 marks

2.

$$\begin{array}{r}
 347\Box \\
 + 1\Box75 \\
 \hline
 5051
 \end{array}$$

2 marks

3.

Ken is playing a game. He has 4,289 points.

Then he scores another 355 points.

Ken's target is 6,000 points.

How many **more** points does Ken need to reach his target?

Show your method

2 marks

4.

Fill in the missing number.

$$327 + 278 = 330 +$$

$$327 + 278 = 330 +$$

1 mark

5.

At the start of June, there were 1,793 toy cars in the shop.

During June,

- 8,728 more toy cars were delivered
- 9,473 toy cars were sold.

How many toy cars were left in the shop at the end of June?

Show
your
method

2 marks

6.

Here are five number cards.

A diagram consisting of five separate, identical rectangular boxes arranged horizontally. Each box contains a single number. From left to right, the numbers are 4, 4, 5, 8, and 2.

Use all five cards to make an addition that has the **answer 500**

+		
5	0	0

1 mark

7.

Here are four number cards.

2

7

6

9

Use **all** the number cards to make an addition.

The answer must be **MORE than 100**

$$\begin{array}{cc} \square & \square \\ + & \\ \square & \square \end{array}$$

1 mark

8.

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

$$\begin{array}{rcc} & 1 & 5 & \square \\ + & 4 & \square & 4 \\ \hline \square & 1 & 5 & \end{array}$$

2 marks

9.

There are 22 people on the bus.



- (a) At the bus stop, 8 people get off and 5 get on.

How many are on the bus now?

1 mark

- (b) 28 people can sit in the bus.
Two people can sit on each seat.

How many seats are there?

1 mark

10.

Write the missing digits to make the addition correct.

$$\begin{array}{r} \begin{array}{|c|c|c|} \hline 1 & & 1 \\ \hline \end{array} \\ + \begin{array}{|c|c|c|} \hline & 1 & \\ \hline \end{array} \\ \hline \begin{array}{|c|c|c|} \hline 9 & 0 & 0 \\ \hline \end{array} \end{array}$$

1 mark

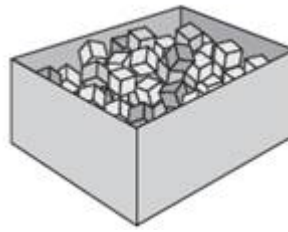
11.

Seb has a box of **120** cubes.

He uses some of the cubes to build a tower.

77 cubes are left over.

How many cubes has he used?



1 mark

Seb has **77** cubes left over.

He builds two more towers.

One tower uses **18** cubes and the other uses **35** cubes.

How many of his **77** cubes has he got left now?

Show
your
method

2 marks

12.

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

$$\begin{array}{r} \boxed{} \boxed{6} \boxed{} \boxed{8} \\ + \boxed{3} \boxed{} \boxed{9} \boxed{} \\ \hline \boxed{9} \boxed{0} \boxed{1} \boxed{9} \end{array}$$

2 marks

Mark schemes

1.

Award **TWO** marks for the correct answer of 123

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $$\begin{array}{r} 87 + 154 + 38 = 279 \\ 402 - 279 \end{array}$$

OR

- $$\begin{array}{r} 87 + 154 + 38 = 269 \text{ (error)} \\ 402 - 269 \end{array}$$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

2.

$$\begin{array}{r} 347 \boxed{6} \\ + \\ 1 \boxed{5} 75 \\ \hline 5051 \end{array}$$

[2]

3.

Award **TWO** marks for the correct answer of 1,356

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $$\begin{array}{r} 4289 + 355 = 4644 \\ 6000 - 4644 = \end{array}$$

OR

- $$6000 - 4289 - 355 =$$

OR

- $$\begin{array}{r} 6000 - 4289 = 1711 \\ 1711 - 355 = \end{array}$$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2 marks

[2]

4.

$$327 + 278 = 330 + \boxed{275}$$

[1]

5.

Award **TWO** marks for the correct answer of 1,048

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $1,793 + 8,728 = 10,521$
 $10,521 - 9,473$

OR

- $9,473 - 8,728 = 745$
 $1,793 - 745$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

6.

4	4	8
	5	2

or

4	5	2
	4	8

or

4	5	8
	4	2

or

4	4	2
	5	8

[1]

7.

9	2
6	7

or

9	6
7	2

or

9	7
6	2

or

7	2
6	9

or

7	6
9	2

or

7	9
6	2

or

2	6
7	9

or

2	7
9	6

or

2	9
7	6

or

2	6
9	7

OR any inversion of these pairs.

No mark is awarded or lost for calculating the sum of the two numbers.

Only the numbers given must be used, without repeats.

*The only **unacceptable** combinations of the given numbers are those with 2 and 6 in the tens place, ie:*

OR

2		6	
6		2	

[1]

8.

Award **TWO** marks for:

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

If the answer is incorrect, award **ONE** mark for two digits correct.

Up to 2m

[2]

9.

(a) 19 (people)

1

(b) 14 (seats)

1

[2]

10.

$$\begin{array}{r} \boxed{1}\boxed{8}\boxed{1} \\ + \boxed{7}\boxed{1}\boxed{9} \\ \hline \boxed{9}\boxed{0}\boxed{0} \end{array}$$

[1]

11.

(a) 43

1

(b) Award **TWO** marks for the correct answer of 24

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

■ $77 - 18 - 35 = \text{wrong answer}$

OR

■ $35 + 18 = 53$

$77 - 53 = \text{wrong answer}$

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2m

[3]

12.

Award **TWO** marks for four boxes completed correctly, as shown.

$$\begin{array}{r} \boxed{5} \boxed{6} \boxed{2} \boxed{8} \\ + \boxed{3} \boxed{3} \boxed{9} \boxed{1} \\ \hline \boxed{9} \boxed{0} \boxed{1} \boxed{9} \end{array}$$

*If the answer is incorrect, award **ONE** mark
for three boxes completed correctly.*

Up to 2

[2]