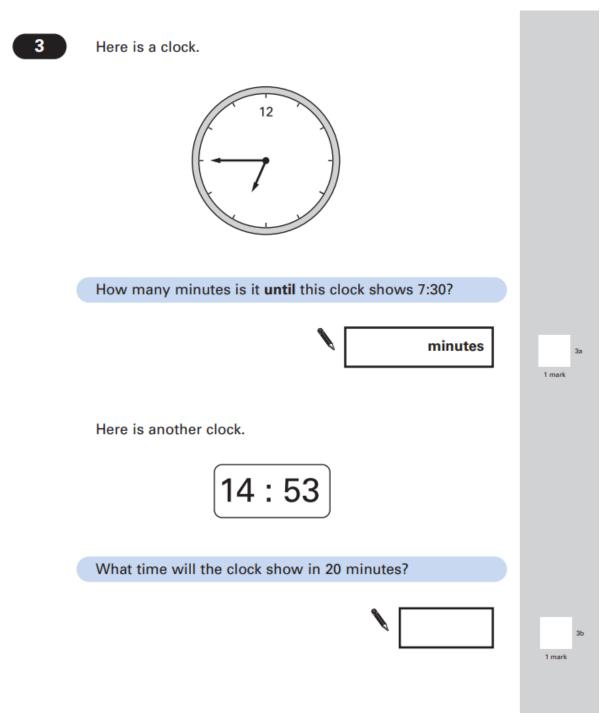
Estimation and Accuracy - Questions

Key Stage 2: 2003 Paper B

1.



2.



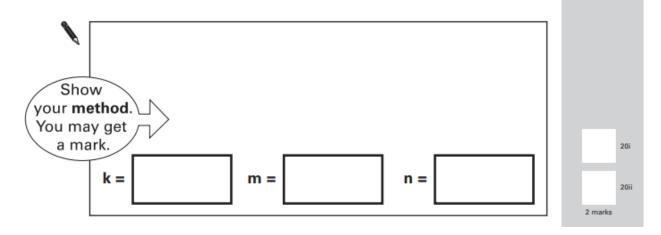
k, **m** and **n** each stand for a whole number.

They add together to make 1500

m is three times as big as n.

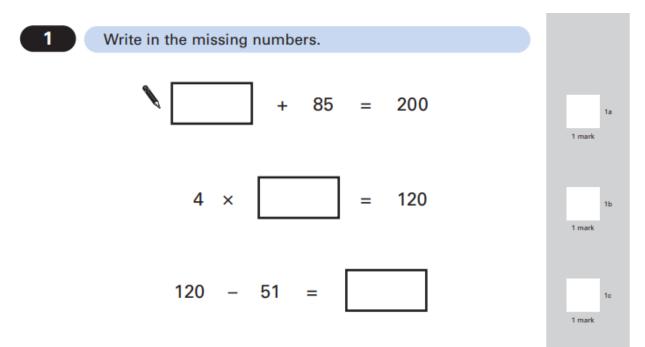
k is twice as big as n.

Calculate the numbers **k**, **m** and **n**.



Key Stage 2: 2004 Paper A

1.

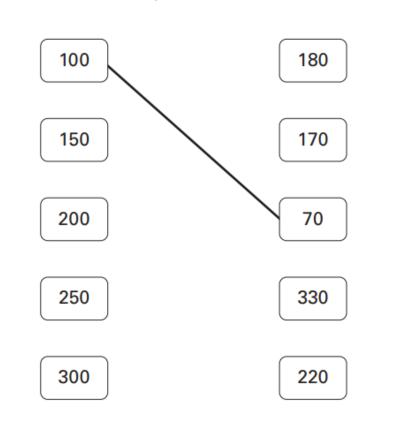


1.

1

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

One has been done for you.



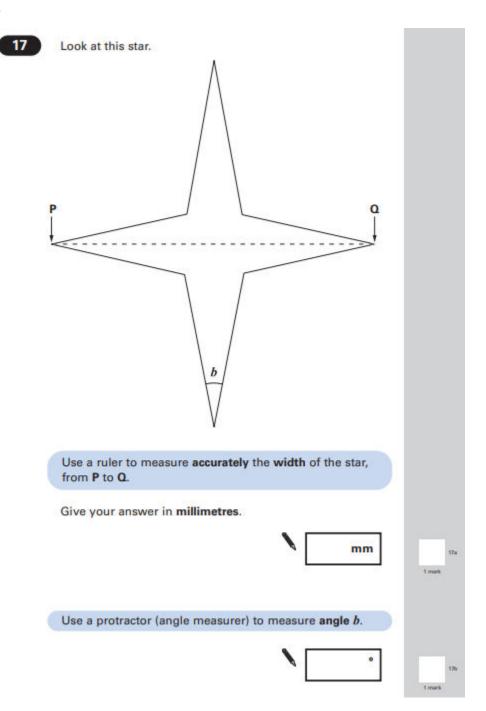
1i

1ii

2 marks

Key Stage 2: 2005 Paper A

2.



1.

11

Josh thinks of a number.

He adds 4

He multiplies his result by 3

Then he takes away 9

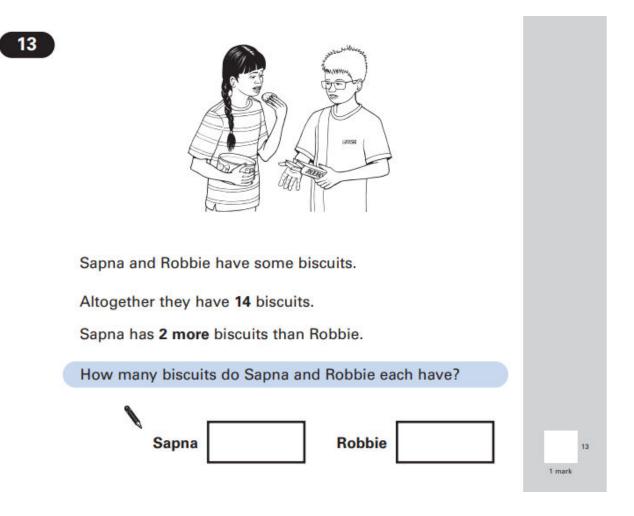
His final answer is 90

What number did Josh start with?



11 1 mark

2.

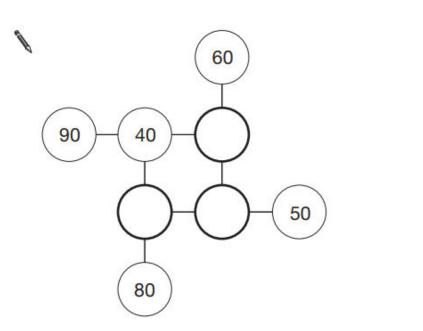


Key Stage 2: 2006 Paper A

1.

5

Complete this diagram so that the three numbers in each line add up to ${\bf 150}$



5

1 mark

1.

20

Write the answer to each of these calculations rounded to the **nearest whole number**.

One has been done for you.

	to the nearest whole number
75.7 × 59	4466
7734 ÷ 60	
772.4 × 9.7	
20.34 × (7.9 – 5.4)	

20

20ii

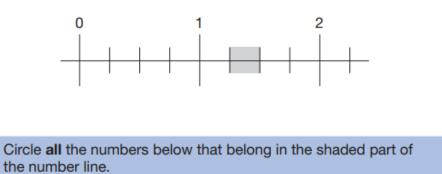
2 marks

Key Stage 2: 2007 Paper A

1.

24

Part of this number line is shaded.





1.

12

The signs are missing from these number sentences.

Write in the missing signs, $+ - \times$ or \div

The first has been done for you.

$$6 \times 5 = 40 - 10$$

$$20 \otimes 8 = 4 \otimes 7$$

$$11^{12a}$$

$$21 \otimes 3 = 15 \otimes 8$$

$$12b$$

$$12b$$

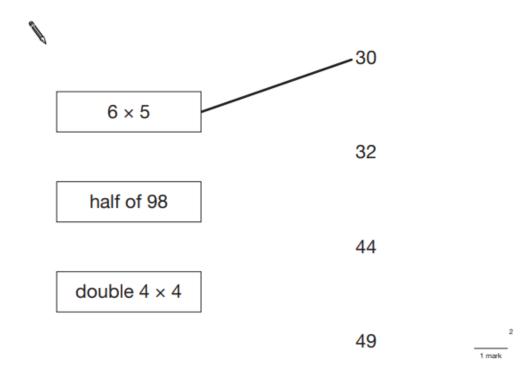
Key Stage 2: 2008 Paper A

1.

2

Join each box to the correct number.

One has been done for you.

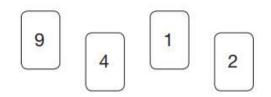


Key Stage 2: 2008 Paper A

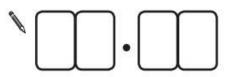
2.



Here are four digit cards.



Use each digit card once to make the decimal number nearest to 20



14

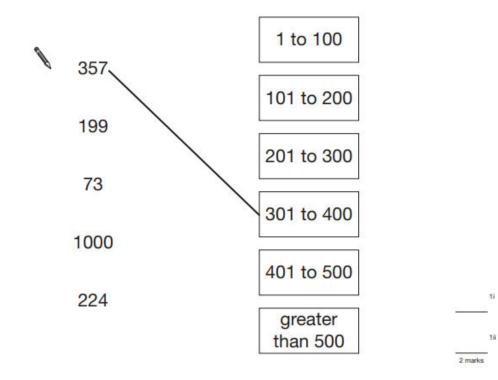
1 mark

1.

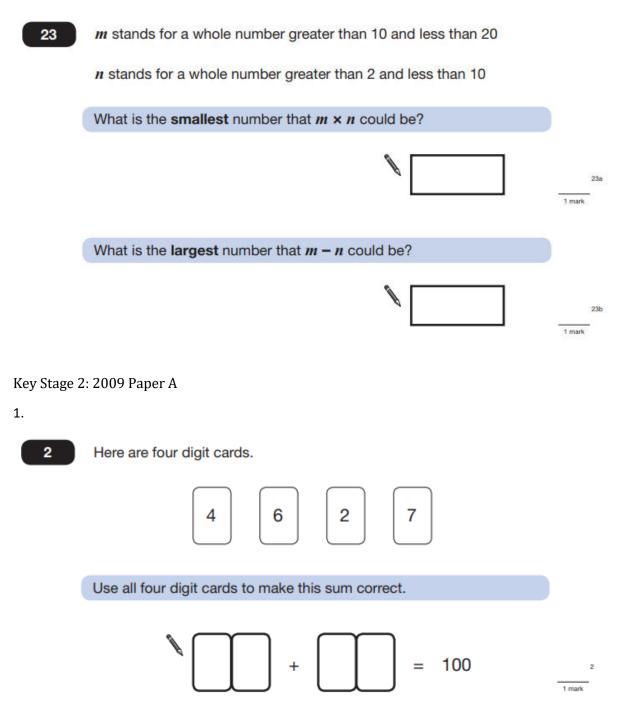
1

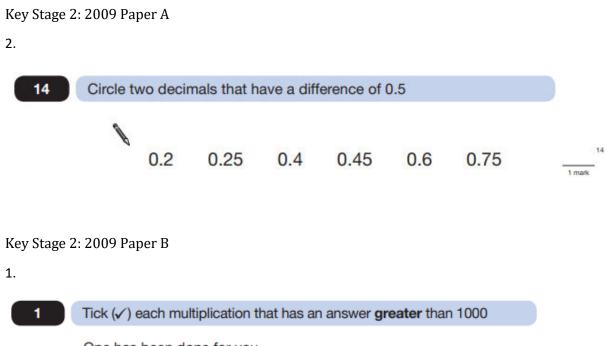
Join each number to the set of numbers that it belongs to.

One has been done for you.

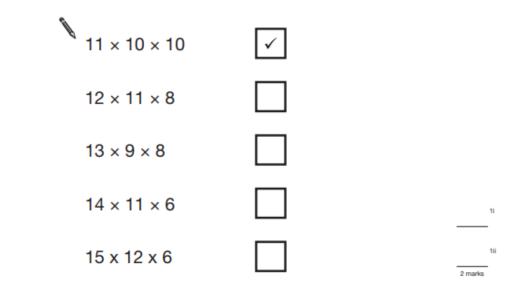


2.





One has been done for you.



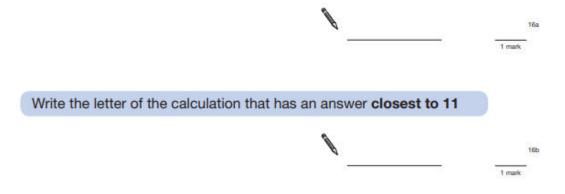
2.

16

Here are five calculations.

Α	720	÷	64
В	820	÷	75
С	920	÷	80
D	1020	÷	90
Е	1120	÷	100

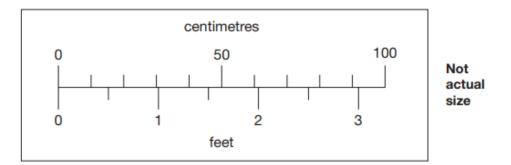
Write the letter of the calculation that has the greatest answer.



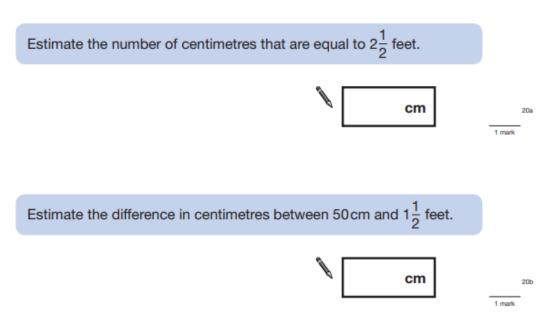
3.

20

This scale shows length measurements in centimetres and feet.



Look at the scale.

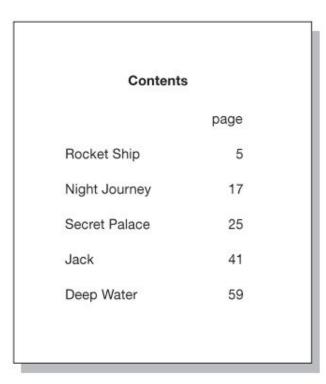


1.



A book has five stories in it.

This is the contents page.



Deep Water finishes on page 68

Which is the longest story?

1 mark

1.

22

Put a tick (\checkmark) in each row to complete this table.

One has been done for you.

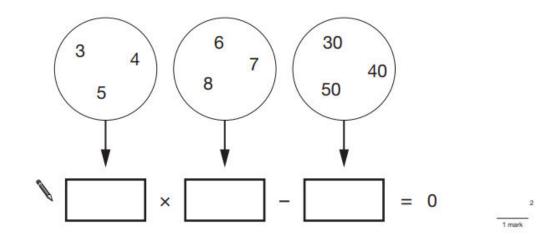
Ø	<i>2</i>	less than 1000	equal to 1000	more than 1000	
	5 × 15 × 25			~	
	16 × (80.3 – 17.8)				
	3888 ÷ (4.32 – 0.57)				22i
	(32 – 5.7) × (32 + 5.7)				 221

Key Stage 2: 2011 Paper A

1.



Write one number from each circle to make this calculation correct.



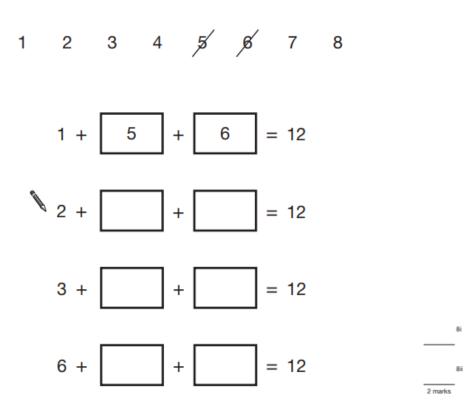
2.

8

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

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

One sum has been done for you.



3.

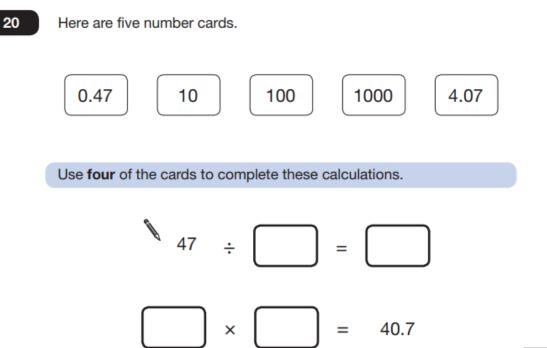
11

Write the correct sign =, > or < in each circle.

9 × 3
9 × 3
9 - 3
9 - 3
9 - 4
9 + 3
9 + 3
8 + 4
9 ÷ 3
8 ÷ 4

$$\frac{11}{2 \text{ matrix}}$$

4.



1 mark

20

1.



Here are six number cards.



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

$$+ =$$

2

2.

4

For each of these pairs, tick (\checkmark) the calculation that has the **greater** answer.

One has been done for you.

	200 × 4 🖌	250 × 3	
Ø	34 × 21	31 × 24	
	444 + 777	222 + 888	
	828 – 332	939 – 445	
	888 ÷ 4	777 ÷ 3	4i 4i 2 marks

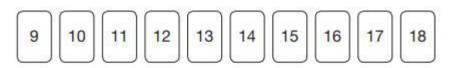
3.

18	Dev says, <i>'When you halve any n</i> <i>the answer always end</i>	× 47 (
	Is he correct? Circle Yes or No .	Yes / No
(Explain how you know.	
		18

4.



Here are some number cards.



Joe picks two even numbers. Dev picks two odd numbers.

Joe gives one of his cards to Dev. Dev gives one of his cards to Joe.

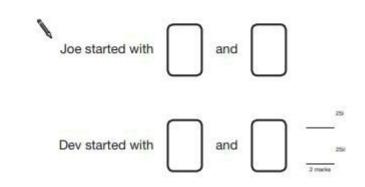
Joe says,

'Now my cards are both square numbers'.

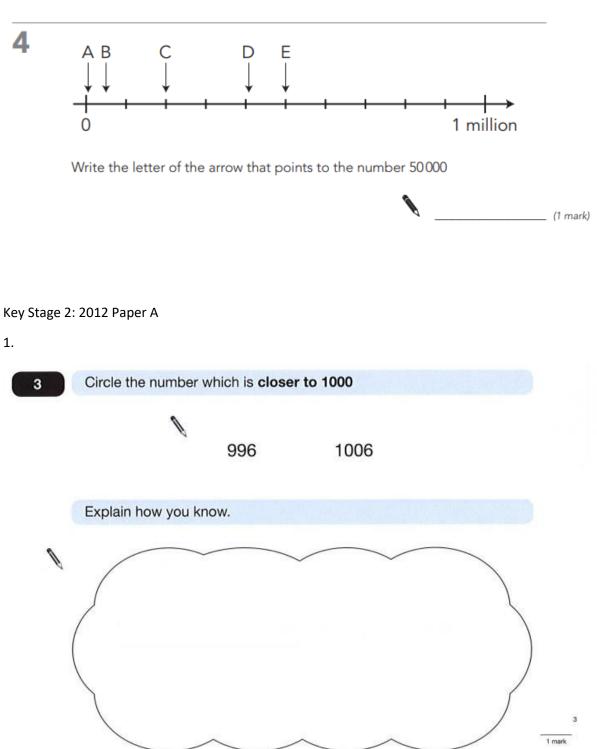
Dev says,

'Now my cards are both multiples of 5'.

What numbers did they each start with?



1.



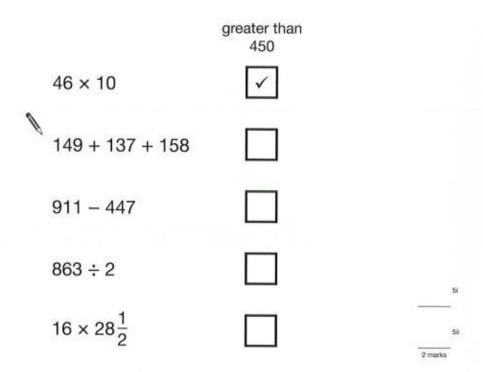
1.

5

Here are five calculations.

For each, put a tick (\checkmark) in the box if the answer is greater than 450 Put a cross (x) if it is not.

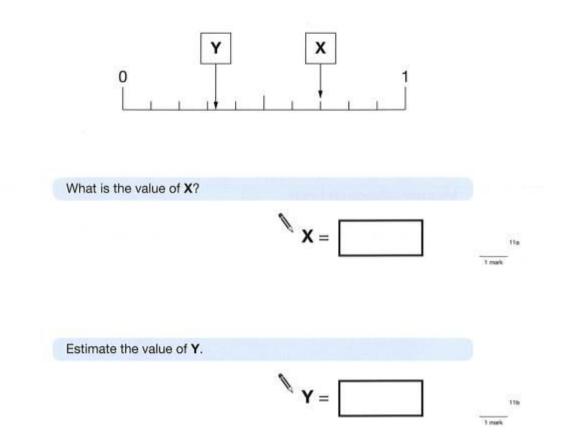
One has been done for you.



2.



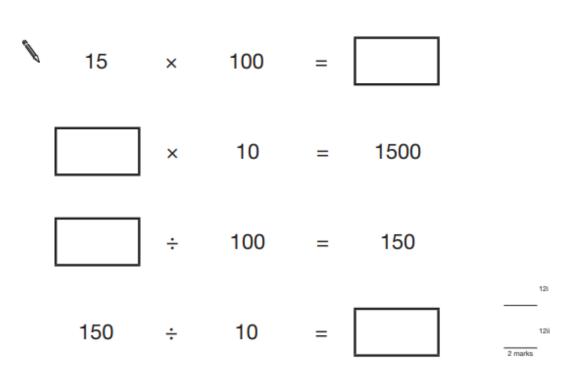
Here is a number line.



1.

12

Complete these calculations.



2.

15	Four children are in a race.	
	Chen is 2 metres ahead of Alfie.	
	Nina is 5 metres behind Megan.	
	Alfie is 3 metres behind Megan.	
	Write the names of the runners in order, starting with the child who is furthest ahead.	
Ø		
		15
-	furthest ahead	1 mark
Key Stage 2:	2013 Paper B	

1.



At a tournament there are 7 players in each team.

There are 112 players altogether.

How many teams is this?

8	
	2
	1 mark

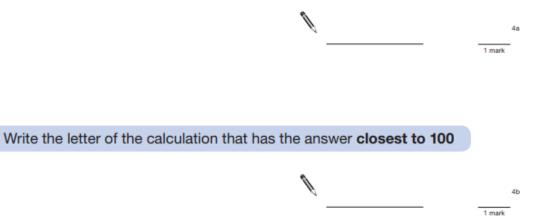
2.

4

Here are five calculations.

Α	12 × 12 – 10
в	13 × 13 – 20
С	14 × 14 – 40
D	15 × 15 – 80
Е	16 × 16 – 160

Write the letter of the calculation that has the greatest answer.



3.



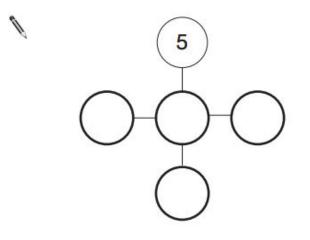
Here are five number discs.



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.

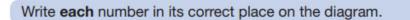


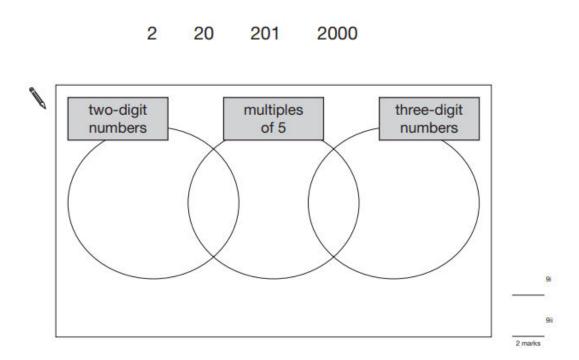
14

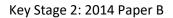
1.

9

Here is a diagram for sorting numbers.







1.



Write numbers in the boxes to make this calculation correct.

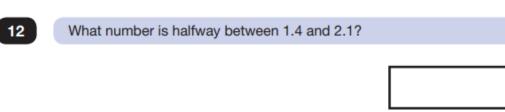


1.

Alfie says, 23 'When you multiply two numbers together, the answer is always greater than either of the numbers you started with.' Yes / No Is Alfie correct? Circle Yes or No. Explain how you know. Ø 23 1 mark

Key Stage 2: 2016 Paper 2 Reasoning - Sample

1.



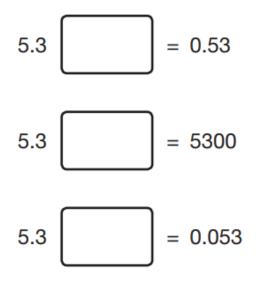
Key Stage 2: 2016 Paper 3 Reasoning - Sample

1.



Here are six cards.

Use a card to complete each calculation.



2 marks

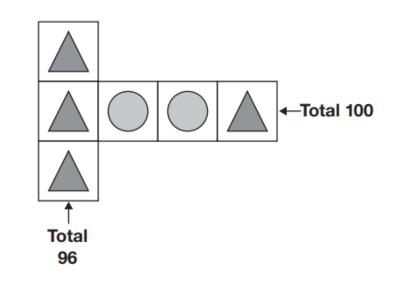
1 mark

Key Stage 2: 2016 Paper 3 Reasoning

1.



Each shape stands for a number.



Work out the **value** of each shape.



Key Stage 2: 2016 Paper 3 Reasoning

2.



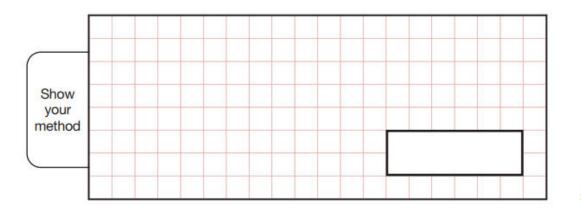
Lara chooses a number less than 20

She divides it by 2 and then adds 6

She then divides this result by 3

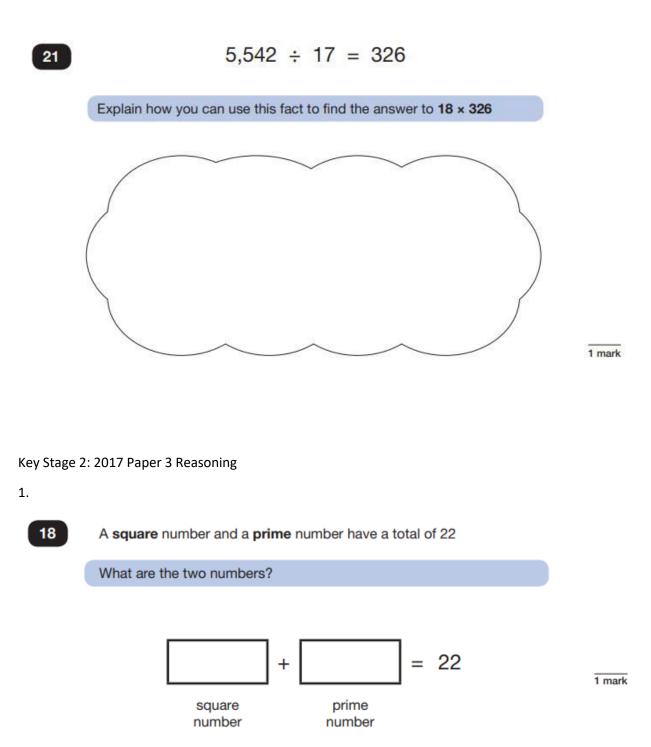
Her answer is 4.5

What was the number she started with?



2 marks

3.



Key Stage 2: 2017 Paper 3 Reasoning

2.

1	0	
	ອ	

Dev thinks of a whole number.

He multiplies it by 4

He rounds his answer to the nearest 10

The result is 50

Write **all** the possible numbers that Dev could have started with.

Key Stage 2: 2018 Paper 2 Reasoning

1.

16

Adam wants to use a mental method to calculate 182 - 97

He starts from 182

Here are some methods that Adam could use.

Tick the methods that are **correct**.

add 3 then subtract 90

subtract 3 then subtract 100

2 marks

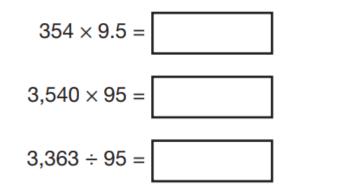
2 marks

1.



$33,630 = 354 \times 95$

Use this multiplication to complete the calculations below.



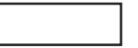
2 marks

Key Stage 2: 2019 Paper 2 Reasoning

1.

2

What number is 1,000 less than 9,072?



1 mark

Key Stage 2: 2019 Paper 2 Reasoning

2.

9

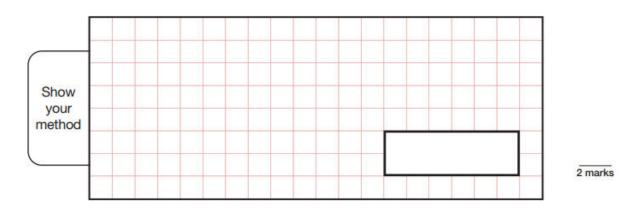
Jack chose a number.

He multiplied the number by 7

Then he added 85

His answer was 953

What number did Jack choose?



Key Stage 2: 2019 Paper 3 Reasoning

1.



Write the missing digits to make this addition correct.

1 mark

Key Stage 2: 2019 Paper 3 Reasoning

2.

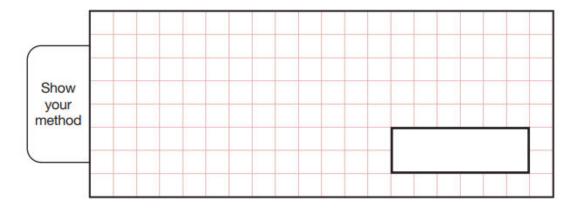
8

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?



2 marks