2017 national curriculum tests

Key stage 2

MATHEMATICS

Modified large print

Paper 2: reasoning

First name			
Middle name			
Last name			
Date of birth	Day	Month	Year
School name			
DfE number			

Note for marking:

This paper should be marked using the MODIFIED LARGE PRINT amendments to the mark schemes – MLP.

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Instructions

You must not use a calculator to answer any questions in this test.

Questions and answers

You have 40 minutes to complete this test, plus your additional time allowance.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use any space on the page.

Some questions say 'Show your method.'
For these questions you may get a mark for showing your method.

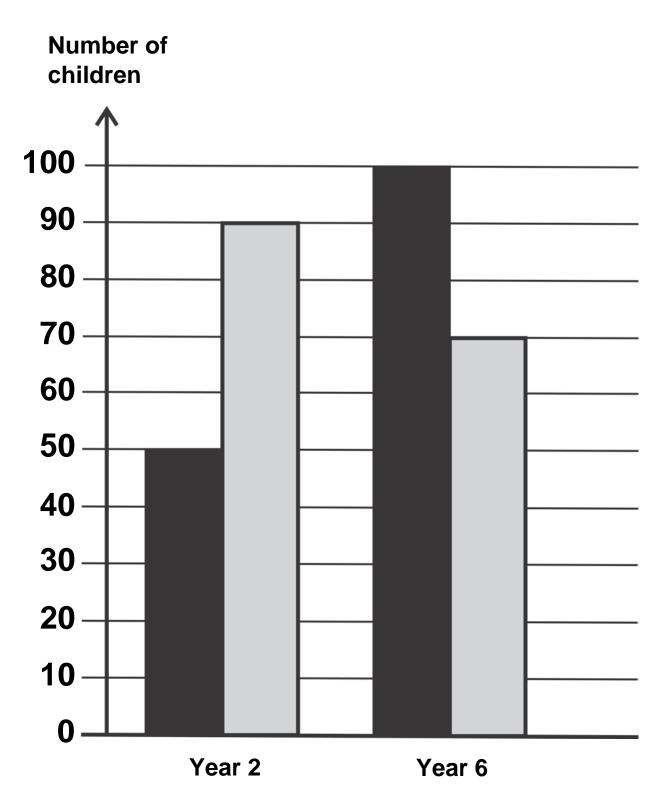
If you cannot do a question, go on to the next one. You can come back to it later, if you have time.

If you finish before the end, go back and check your work.

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1. William asks the children in Year 2 and Year 6 if they walk to school.





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a)	Altogether, how many children don't walk to school?
b)	How many more Year 6 children than Year 2 children walk to school?

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2. Look at the five numbers below.

9700 907 9007 970 9070

Write the number that is 10 times greater than nine hundred and seven.

3. In this question \triangle and \square stand for two different numbers.

$$9 \times \triangle = 63$$

Write the value of \triangle

Write the value of

4. The table below shows the heights of three mountains.

Mountain	Height in metres
Mount Everest	8848
Mount Kilimanjaro	5895
Ben Nevis	1344

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

Show your method.

_____ m

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5. Complete the table below with the missing numbers.

One row has been done for you.

Write your answers in the boxes.

Number	1000 more
3500	4500
85	
	9099
	15 250

6. Look at the four numbers below.

1.9 0.96 1.253 0.328

Write these numbers in order of size, starting with the smallest.

smallest

7. Write the missing numbers in the boxes below.

8. At the start of June, there were 1793 toy cars in the shop.

During June,

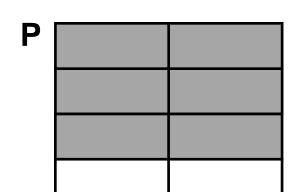
8728 more toy cars were delivered

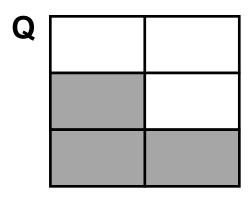
9473 toy cars were sold.

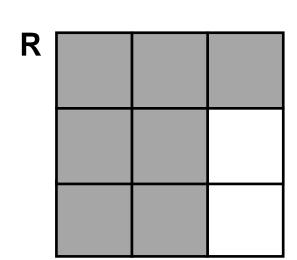
How many toy cars were left in the shop at the end of June? Show your method.

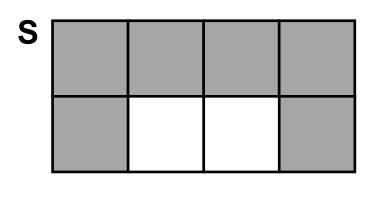
9. Look at the four shapes below.

They are labelled P Q R and S









Write the letters of the two shapes that have $\frac{3}{4}$ shaded.

_____ and ____

10. Round **84 516** to the nearest **10** Round 84 516 to the nearest 100 Round **84 516** to the nearest **1000**

11.	The	rule below shows the time it takes to cook a chicken.					
	Coo	king time =					
	20 minutes plus an extra 40 minutes for each kilogram						
	a)	How many minutes will it take to cook a 3 kg chicken?					
		minutes					
	b)	What is the mass of a chicken that takes 100 minutes to cook?					

kg

12.	You	You have a hexagonal prism for this question.				
	a)	How many faces does it have?				
	b)	How many vertices does it have?				

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13. Ally and Jack buy some stickers.

Ally buys a pack of 12 stickers for £10·49

Jack buys 12 single stickers for 99p each.

How much more does Jack pay than Ally?

Show your method.

|--|

14.	Amina planted some seeds.
	For every 3 seeds Amina planted, only 2 seeds grew.
	Altogether 12 seeds grew.
	How many seeds did Amina plant?
15.	The year below is written in Roman numerals.
	MMVI

Write the year in figures.

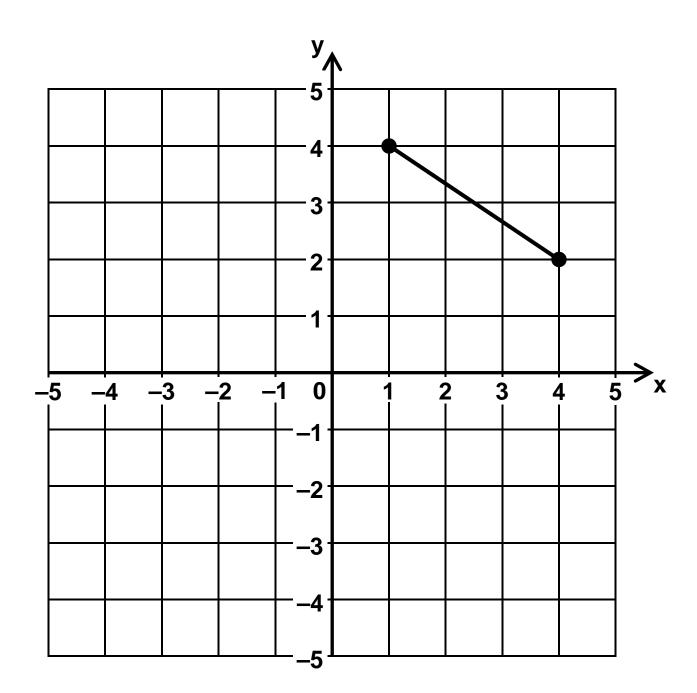
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16.	How many	degrees	are there	in one	and a	half turns	s?
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0

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17. Look at the diagram below.



The vertices of a quadrilateral have the coordinates below.

$$(1, 4)$$
 $(4, 2)$ $(2, -3)$ $(-3, 4)$

One side of the quadrilateral has been drawn on the grid.

Complete the quadrilateral.

Use a ruler.

18. A cat sleeps for 12 hours each day.

50% of its life is spent asleep.

A koala sleeps for 18 hours each day.

What percentage of the koala's life is spent asleep?

_____%

19. Amina posts three large letters.

The postage costs the same for each letter.

She pays with a £20 note.

Her change is £14.96

What is the cost of posting One letter?

Show your method.

2			
L			

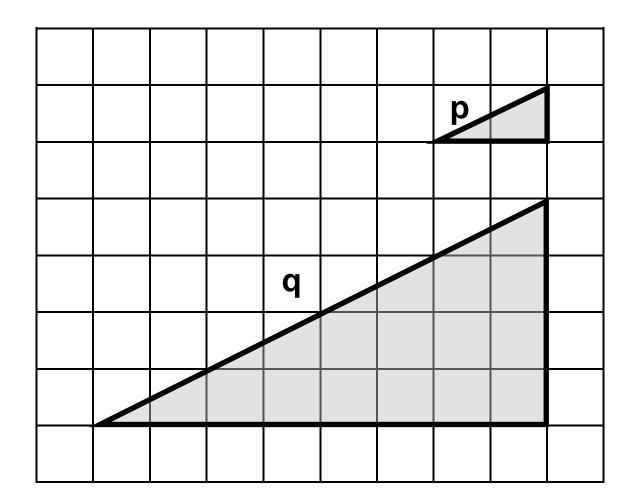
20. Adam says that 0.25 is smaller than $\frac{2}{5}$ Explain why he is correct.

21. On a map, 1 cm represents 20 kmThe distance between two cities is 250 kmOn the map, what is the distance between the two cities?Show your method.

cm

22. Look at the diagram below.

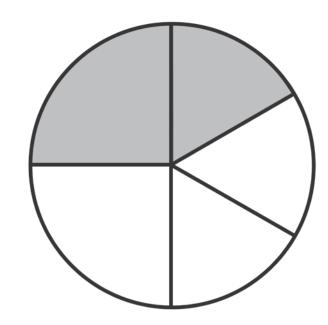
Two triangles are shown on a square grid.



The triangles are similar and right-angled.

Write the ratio of side **p** to side **q**

23. Look at the circle below.



In the circle $\frac{1}{4}$ and $\frac{1}{6}$ are shaded.

What fraction of the whole circle is **not** shaded?

Show your method.

END OF TEST

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2017 key stage 2 mathematics Paper 2: reasoning

Print version product code: STA/17/7737/MLp ISBN 978-1-78644-339-7

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