

National Curriculum Practice Test Key Stage 2 Reasoning

First name						
Middle name						
Last name						
Date of Birth	Day		Month		Year	
School name						

Total Marks	
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Key Stage 2 Test Practice Paper - Reasoning

Questions and answers

You have **40 minutes** to complete this test.

Work as quickly and as carefully as you can.

Put your answer in the box for each question.

If you are asked to, show your working. 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**.

Marks

The number under each line at the side of the page tells you the number of marks available for each question.

- 1 The numbers in this sequence increase by the same amount each time. Write in the missing numbers.

<input type="text"/>	23	30	<input type="text"/>	<input type="text"/>	51	<input type="text"/>
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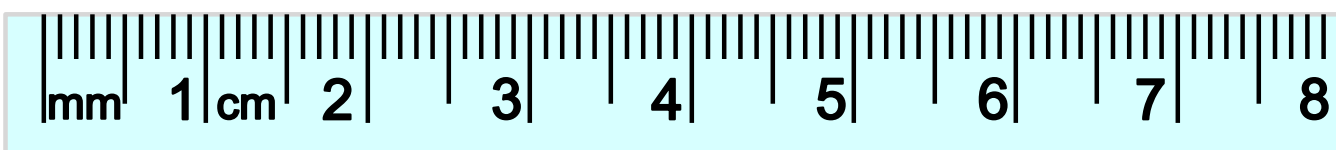
2 marks

- 2 A tin contains 50 sweets. If each of 4 children eat 5 of these, how many sweets will left?

<input type="text"/>

1 mark

- 3 Which length is halfway between 2.4 cm and 5.6 cm?

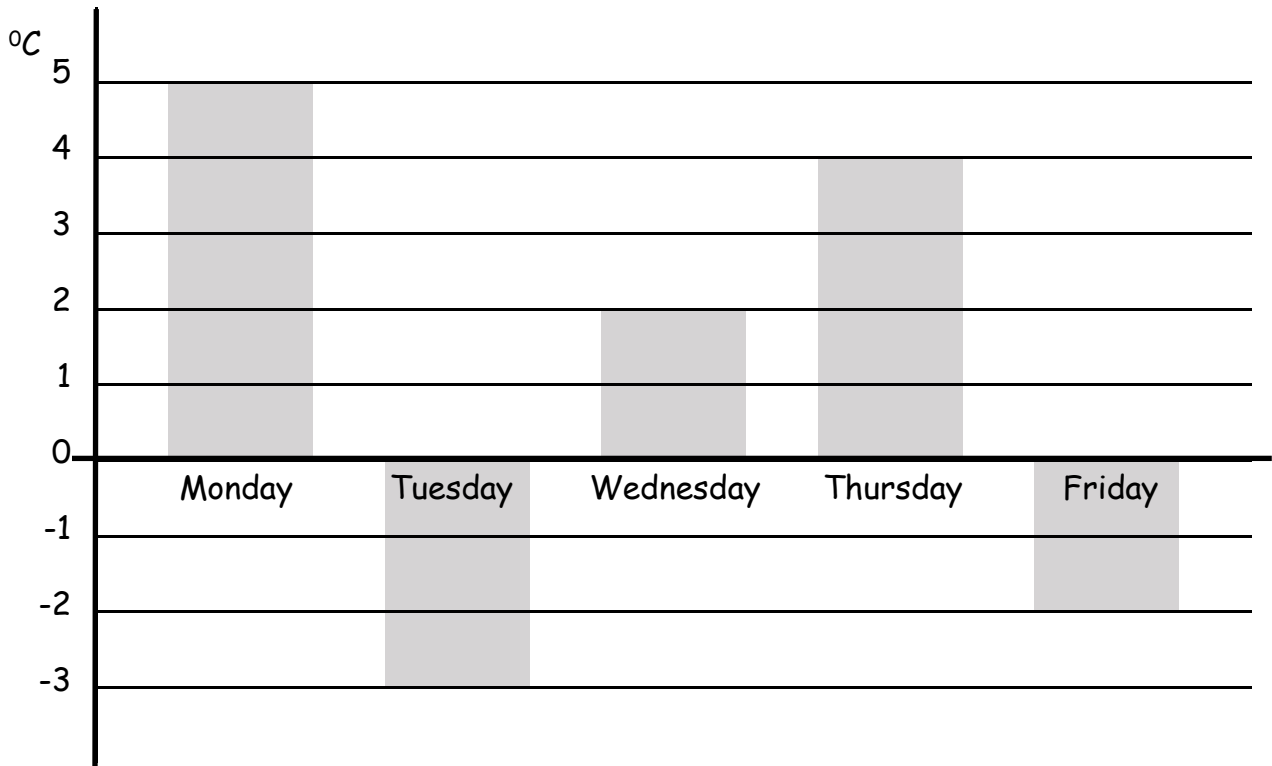


Not to scale

<input type="text"/>

1 mark

- 4 As part of a science lesson, pupils record the lowest overnight temperature during one week in January. These are shown on the bar chart below:



- a. On which night was it 5°C colder than Wednesday night?

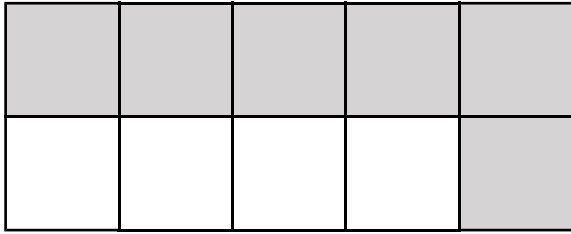
1 mark

- a. How many degrees difference was there between the coldest and warmest nights?

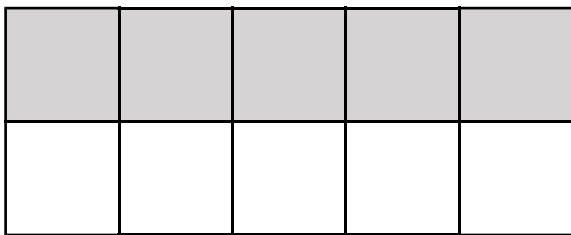
1 mark

5

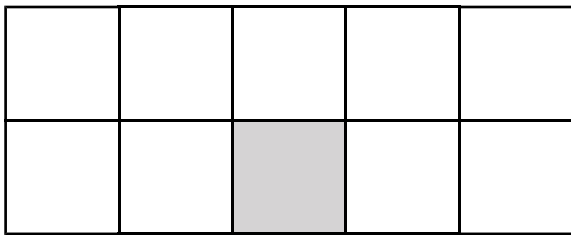
Draw lines from each of the rectangles to show the fraction that is shaded. One has been done for you to give you the idea.



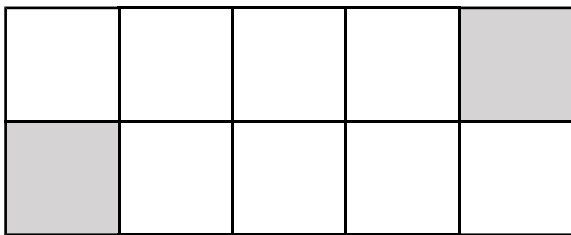
$$\frac{1}{2}$$



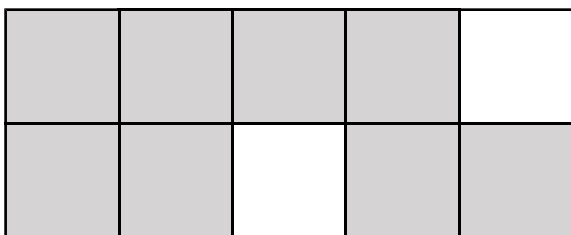
$$\frac{1}{10}$$



$$\frac{1}{5}$$



$$\frac{4}{5}$$



$$\frac{3}{5}$$



2 mark

6

In the box, write a number that is a multiple of each set of numbers. The first one has been done for you to give you the idea.

Numbers from 12 to 30

Multiple of 5

15

Numbers from 25 to 90

Multiple of 10

Numbers from 72 to 150

Multiple of 20

Numbers from 112 to 200

Multiple of 30

Numbers from 123 to 281

Multiple of 40

2 mark

7

Tick the two numbers that are equivalent to $\frac{3}{4}$

Tick 2

0.25

$\frac{8}{10}$

0.75

0.34

$\frac{75}{100}$

1 mark

10

$$\frac{3}{5}$$

$$\frac{3}{2}$$

$$\frac{4}{5}$$

Write these fractions in the order smallest to largest.

Smallest

1 mark

11

Write the correct symbol in each box to make the statements correct.

11×12

14×10

$80 \div 20$

$120 \div 30$

$120 \div 3$

$150 \div 5$

60×3

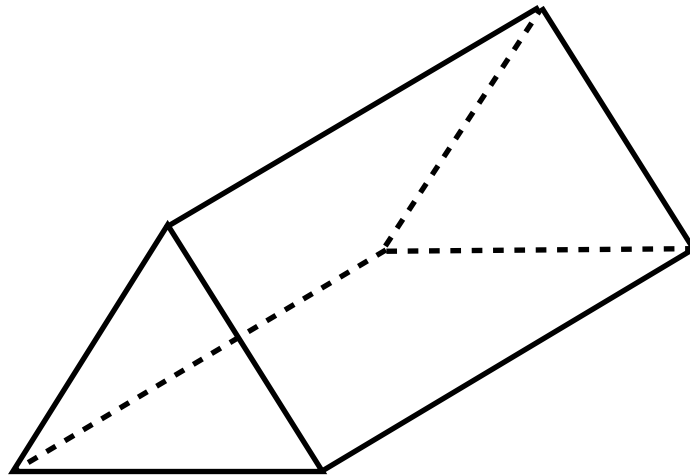
40×4

2 mark

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12

Complete the table below for the the drawing of this 3-D shape.



Number of faces	Number of vertices	Number of edges



2 marks

13

This watch shows the time as 12 minutes to 2. If the watch is 20 minutes slow, write in the the two numbers needed in the box to describe the correct time.



minutes past



1 mark

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14

Tick the mental method below which **starting with 143** will give the correct answer for the calculation

$$143 - 98$$

Add 3 then subtract 90

Subtract 3 then subtract 90

Subtract 3 then subtract 100

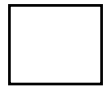
Add 2 then subtract 100

2 marks

15

What is the mean average of £2, £4, £7 and £11?

Show your working														



2 marks

16

Tick the method below which gives the best estimate for the calculation:

$$3\frac{7}{8} + 1\frac{1}{5} + 3\frac{3}{4}$$

$$4 + 2 + 3$$

$$3 + 1 + 3$$

$$4 + 1 + 4$$

$$4 + 2 + 4$$

1 mark

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17

An estimate of the distance away of a thunder storm may be found by dividing the number of seconds between the lightning and the thunder by 5.

a. If there is 15 seconds between the thunder and the lightning, how far away is the storm?

_____ miles

1 mark

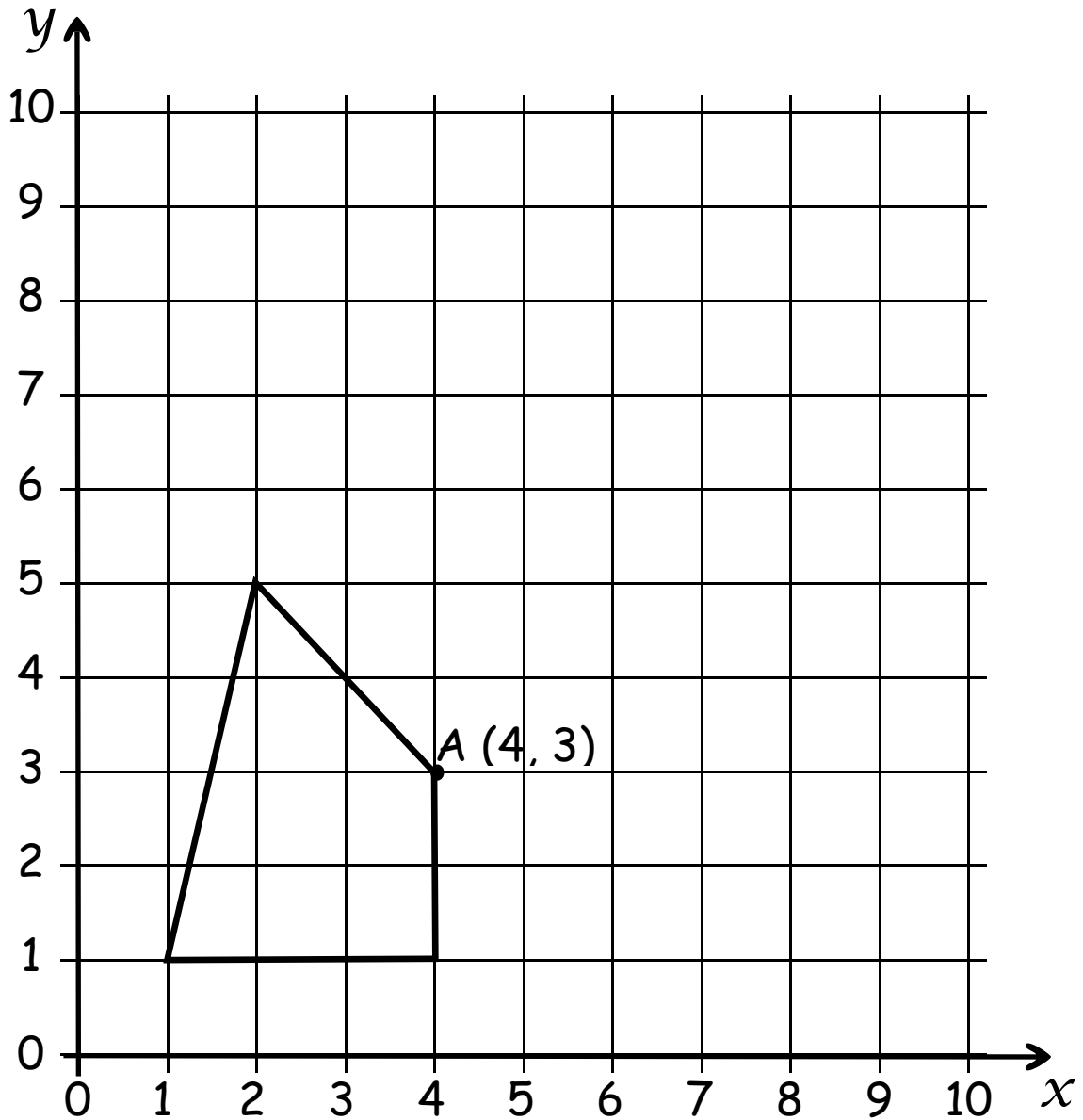
b. How many seconds would there be between the lightning and the thunder for a storm which was 2 miles away?

_____ miles

1 mark

18

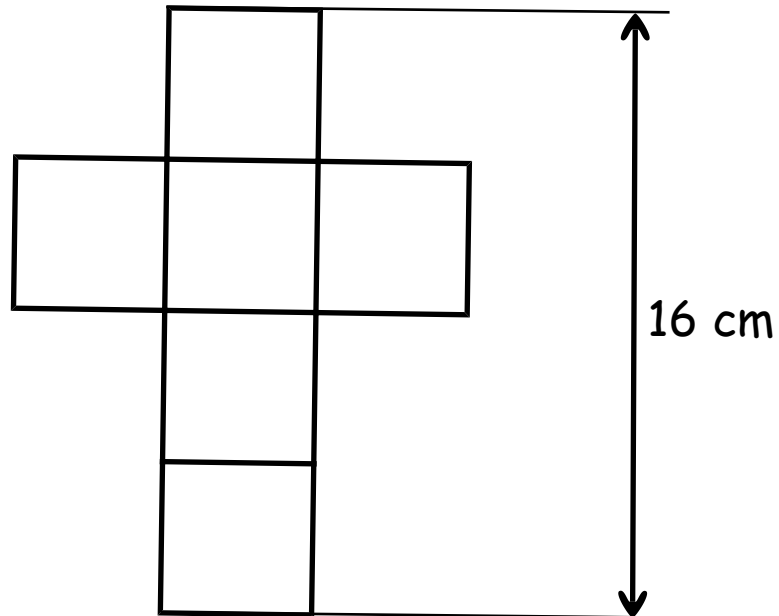
Draw the shape after the translation that moves the point A to (9, 7).



1 mark

19

What would be the volume of the cube which the net below could be used to make?



cm^3

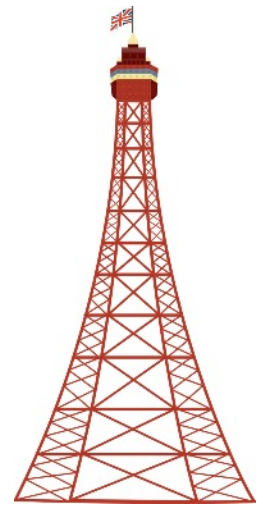
20

Blackpool Tower is approximately 160 metres high.

The Eiffel Tower in Paris is approximately

$1\frac{9}{10}$ times higher.

What is the approximate height of the Eiffel Tower?



Show your working															

metres high

2 mark

End of test
