

Spring progress check

Year 3

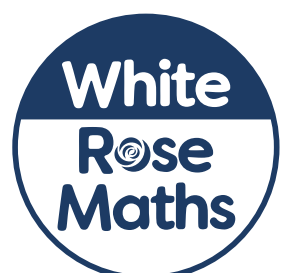
Mathematics

Paper 2: reasoning and problem solving

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
Teacher						

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Please do not write on this page.

Instructions

You **may not** use a calculator to answer any questions in this paper.

Questions and answers

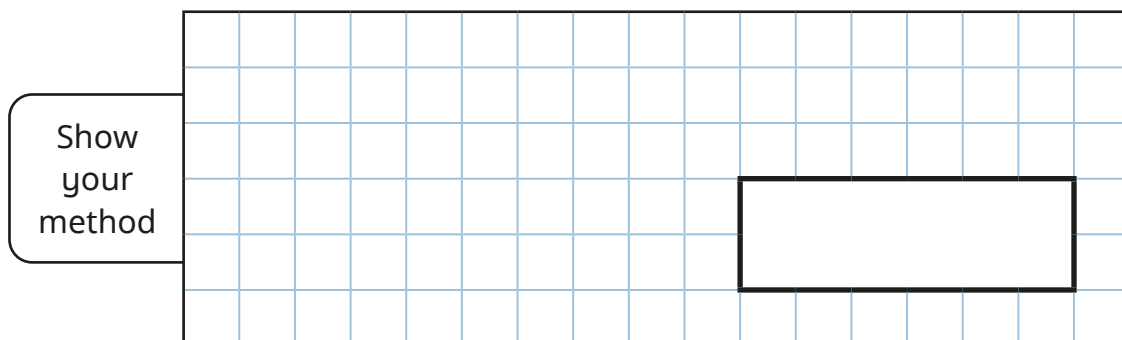
You have **50 minutes** to complete this paper.

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 the space around the question.

Some questions have a method box like this:



For these questions you may get a mark for showing your method.

If you cannot do one of the questions, **go on to the next one.**

You can come back to it later, if you have time.

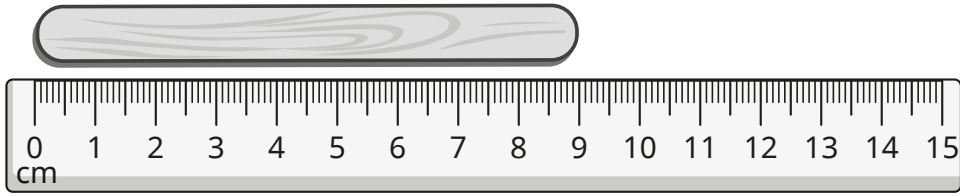
If you finish before the end, **go back and check your work.**

Marks

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

1

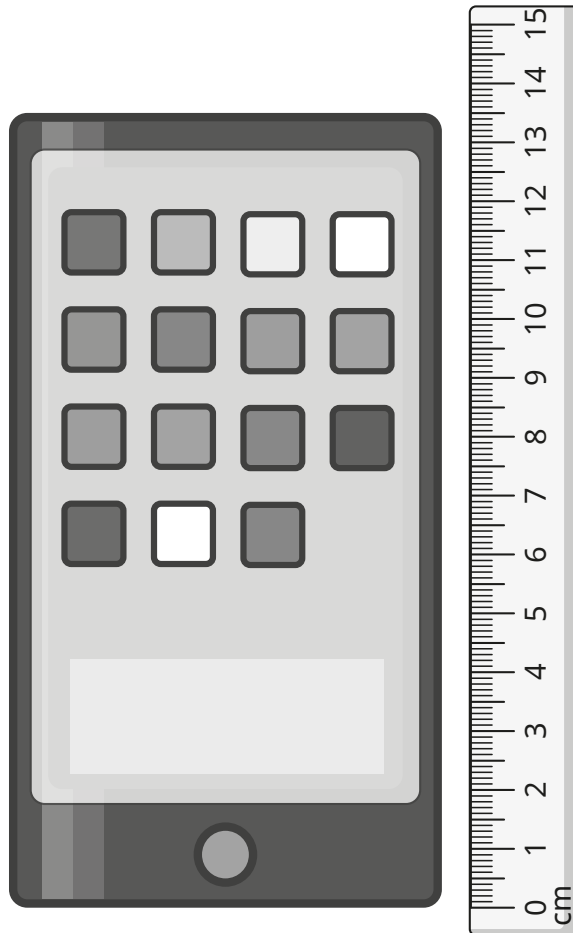
What is the length of the lolly stick?



cm

1 mark

How tall is the phone?



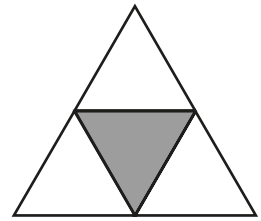
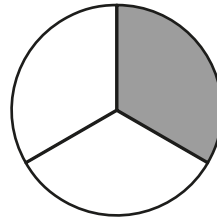
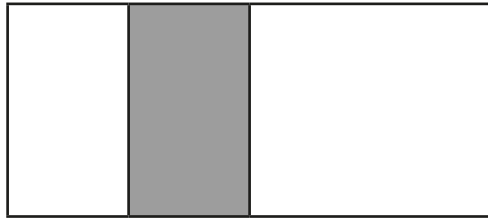
cm

mm

1 mark

2

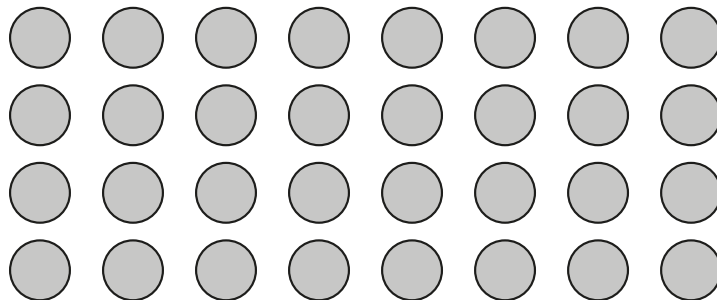
Tick the shape that has $\frac{1}{3}$ shaded.



1 mark

3

Write two multiplications and two divisions shown by the array.



$$\boxed{} \times \boxed{} = \boxed{}$$

$$\boxed{} \times \boxed{} = \boxed{}$$

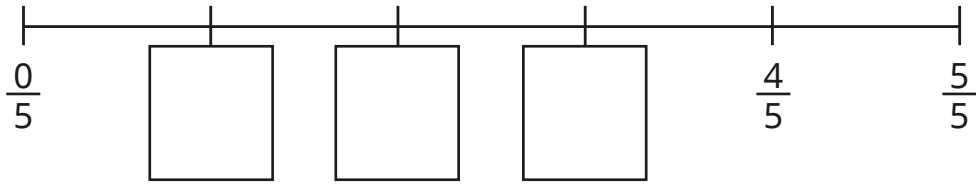
$$\boxed{} \div \boxed{} = \boxed{}$$

$$\boxed{} \div \boxed{} = \boxed{}$$

2 marks

4

Complete the number line.



1 mark

5

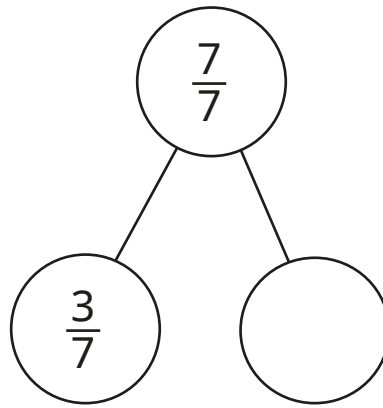
28 children are put into groups of 4

How many groups are there?

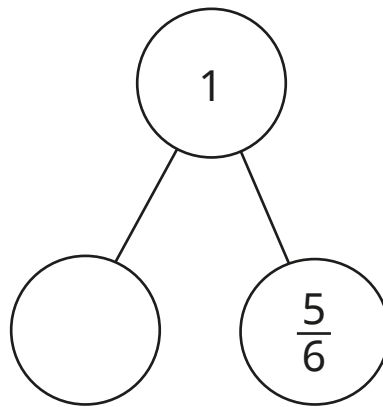
1 mark

6

Complete the part-whole models.



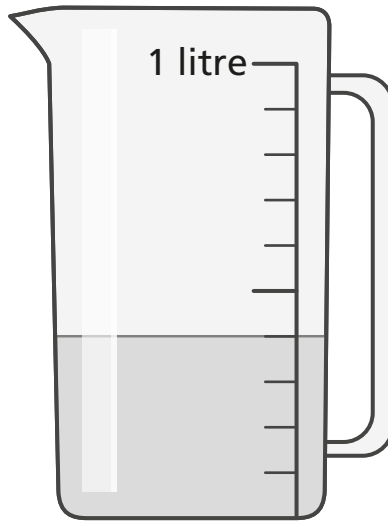
1 mark



1 mark

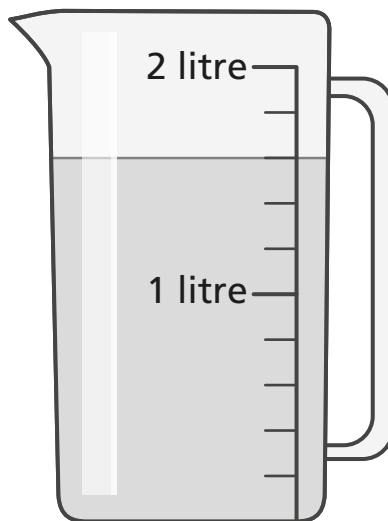
7

What is the volume of liquid in each jug?



ml

1 mark



l ml

1 mark

8

Write a number in each box to make the statements correct.

$$\frac{\square}{8} > \frac{3}{8}$$

1 mark

$$\frac{1}{10} < \frac{1}{\square}$$

1 mark**9**

Here are three number cards.

121

98

145

What is the total of the smallest and greatest numbers?

2 marks

10

Complete the sentences.

10 less than 397 is

1 mark

100 more than 63 is

1 mark is 10 less than 708

1 mark**11**

Complete the number sentences.

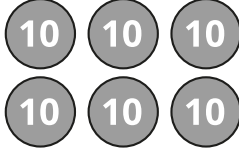
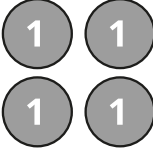
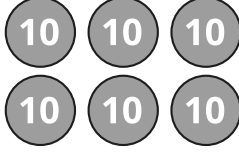
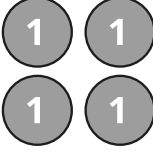
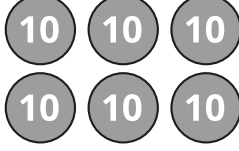
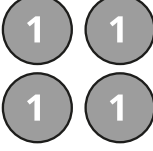
 $40 \times 3 =$ $\times 30$

1 mark $40 \times 3 = 20 \times$

1 mark

12

Nijah is using place value counters to multiply.

Tens	Ones
	
	
	

Write her multiplication.

$$\boxed{} \times \boxed{} = \boxed{}$$

1 mark

13

Circle the numbers that are multiples of 10

400 65 80 101 270

Explain your reasoning.

1 mark

14

Write the lengths in order.

Start with the shortest length.

1 m

180 cm

80 mm

78 cm

shortest

longest

1 mark

15

What is the mass of an apple?

Circle the most appropriate estimate.

1 gram

10 grams

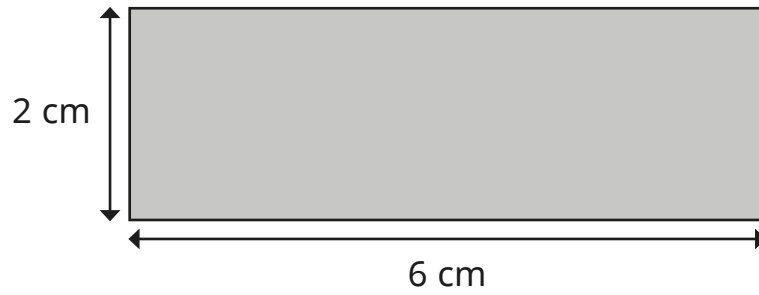
100 grams

1 kilogram

1 mark

16

Work out the perimeter of the rectangle.

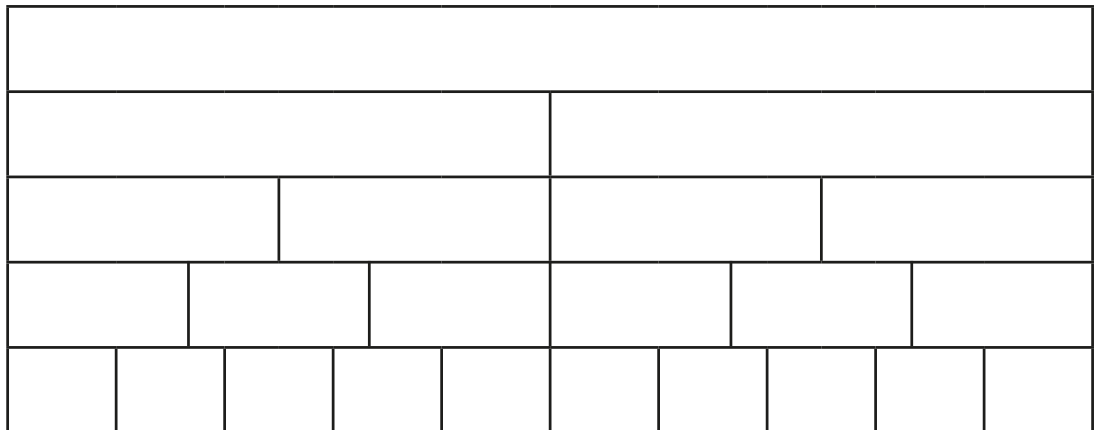


1 mark

17

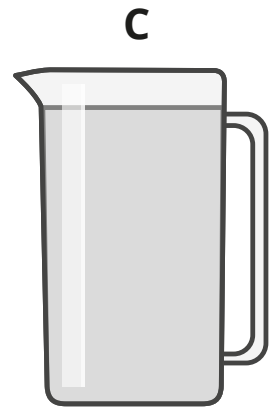
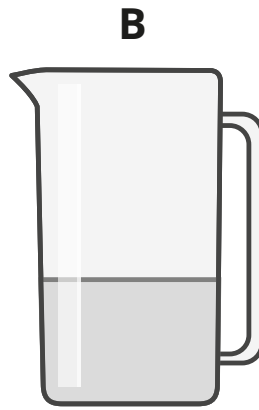
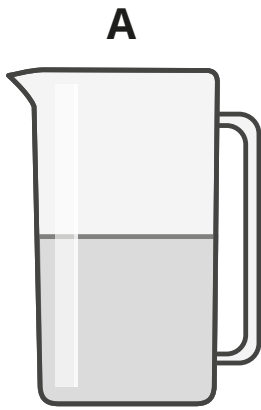
Write a fraction that is equivalent to $\frac{1}{2}$

You may use the fraction wall to help you.



1 mark

18



Jug A has half as much water as Jug C.

Jug B has 85 ml less water than jug A.

The volume of water in jug C is 1 litre.

Work out the volumes of water in jug A and jug B.

Show
your
method

jug A

ml

jug B

ml

2 marks

19

Eva has 3 m 60 cm of string.

She cuts the string into 3 equal pieces.

What is the length of each piece of string?

m	cm
---	----

1 mark

20

Huan has more than 30 buttons but fewer than 40 buttons.

When he shares them equally into 4 bowls, he has no buttons left over.

When he shares them equally into 5 bowls, he has one button left over.

How many buttons does Huan have?

--

1 mark

END OF PAPER