

Summer Progress check

# Year 3

## Mathematics

### Paper 2: reasoning and problem solving

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

These assessments have been designed by White Rose Maths.  
For more information, please visit [www.whiterosemaths.com](http://www.whiterosemaths.com)



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# Instructions

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

## Questions and answers

You have **35 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

For this assessment you will require a ruler.

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

Complete the sequences.

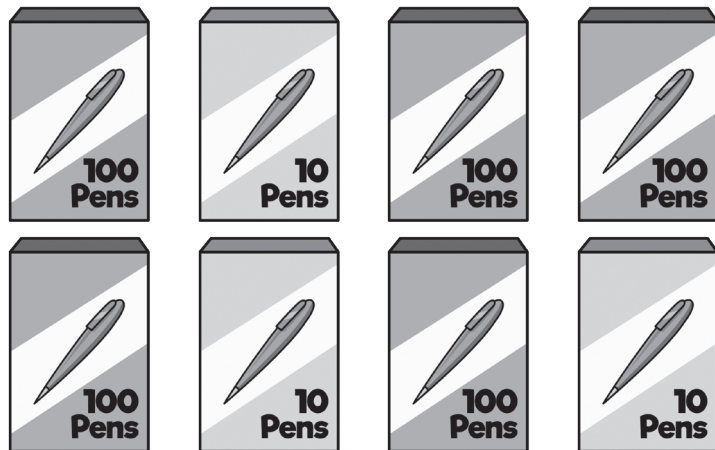
|   |    |     |  |  |     |  |
|---|----|-----|--|--|-----|--|
| 0 | 50 | 100 |  |  | 250 |  |
|---|----|-----|--|--|-----|--|

|    |  |    |    |  |  |    |
|----|--|----|----|--|--|----|
| 44 |  | 36 | 32 |  |  | 20 |
|----|--|----|----|--|--|----|

2 marks

2

Pens are sold in boxes of 10 and boxes of 100

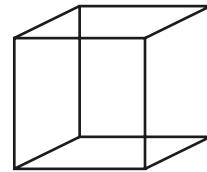
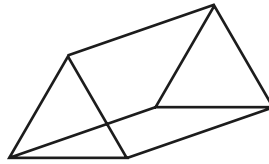
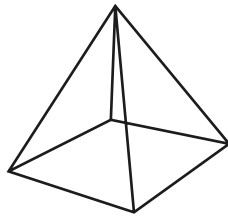


How many pens are there altogether?

1 mark

**3**

Circle the shape with 5 faces and 6 vertices.



1 mark

**4**

Use these words to complete the sentences.

days

minutes

hour

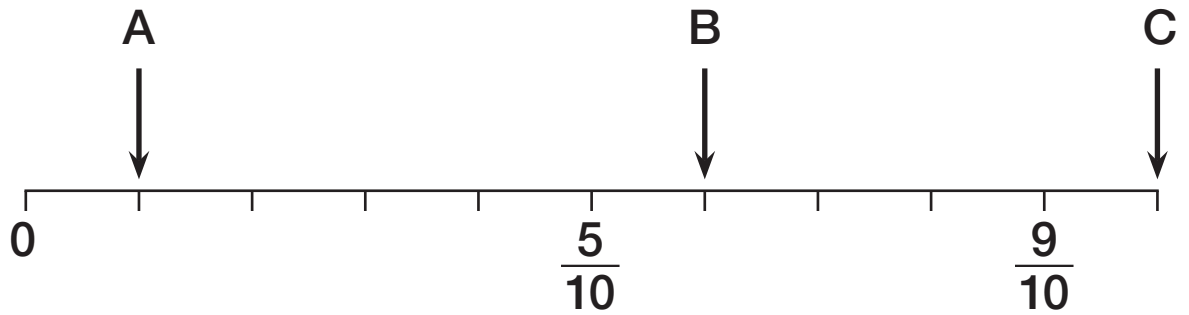
There are 60 \_\_\_\_\_ in an \_\_\_\_\_ .

There are 31 \_\_\_\_\_ in March.

1 mark

**5**

Complete the missing fractions.



$A = \boxed{\phantom{000}}$

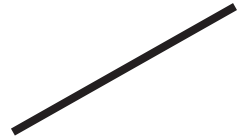
$B = \boxed{\phantom{000}}$

$C = \boxed{\phantom{000}}$

2 marks

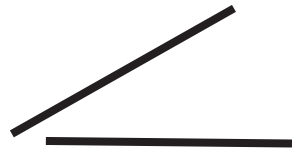
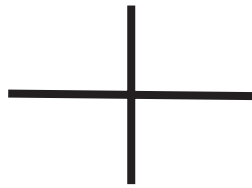
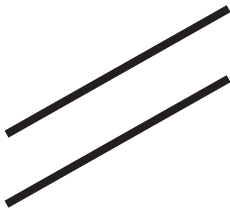
6

Circle the vertical line.



1 mark

Circle the parallel lines.



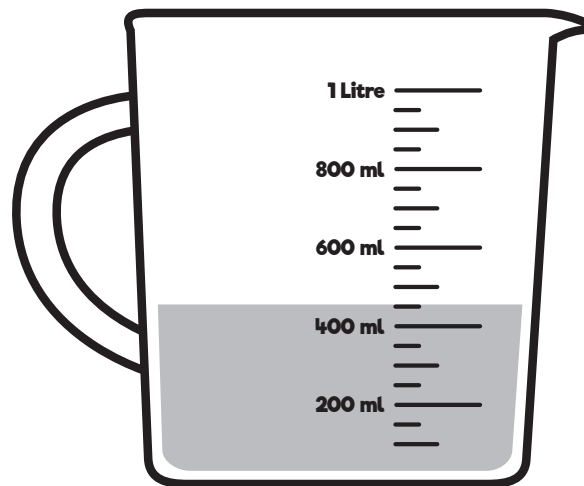
1 mark

Draw a line that is 5 cm long.

1 mark

7

Here is a jug of water.



How much water is in the jug?

 ml

1 mark

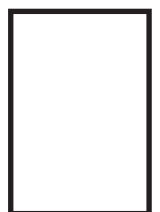
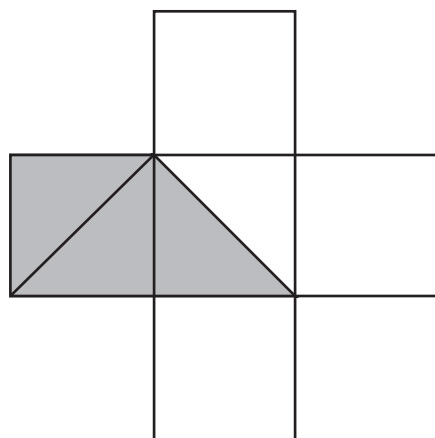
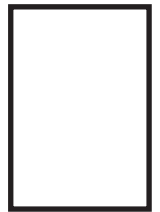
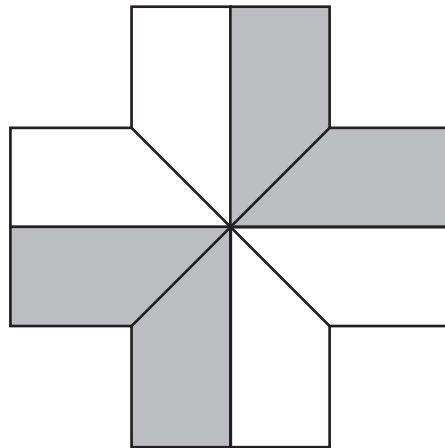
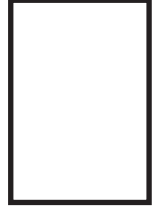
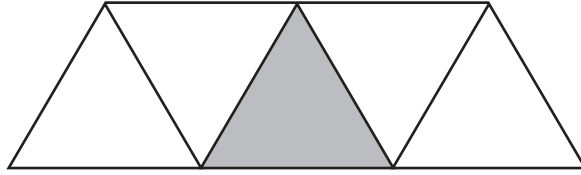
Steph uses 175 ml of the water.

How much water is left?

 ml

1 mark

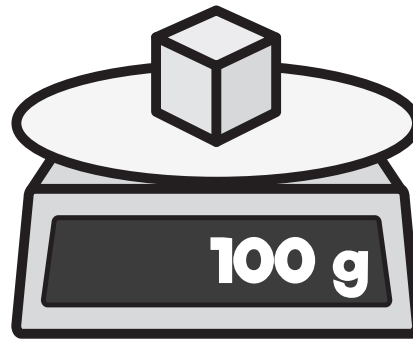
What fraction of each shape is shaded?



3 marks

9

Sam weighs a cube.



He adds two more identical cubes and one cylinder to the scale.



How much does the cylinder weigh?

g

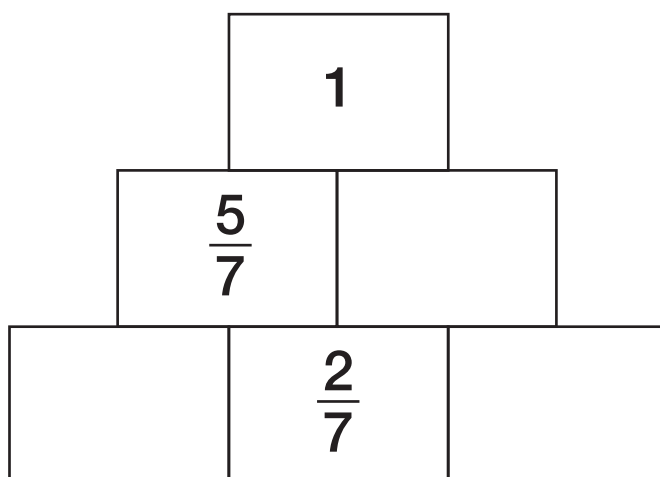
1 mark

**10**

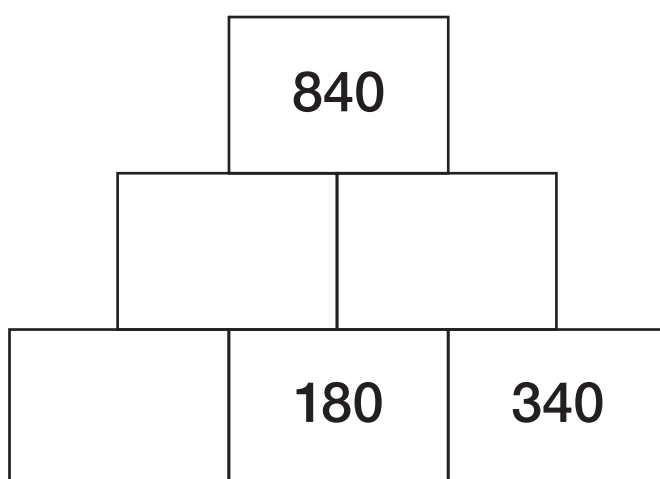
Here are two addition pyramids.

The two numbers below add to make the number above.

Complete each addition pyramid.



2 marks

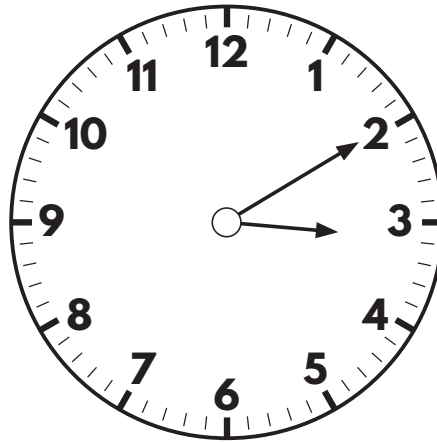


2 marks

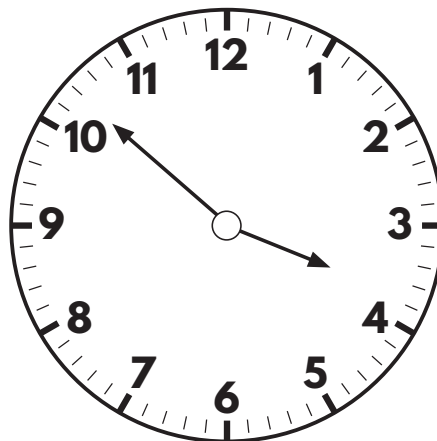
11

Joe is walking home from school.

He leaves school at this time.



He arrives home at this time.



How many minutes does it take Joe to walk home?

minutes

1 mark

$$340 + 20 = 339 +$$

$$340 - 20 = 339 -$$

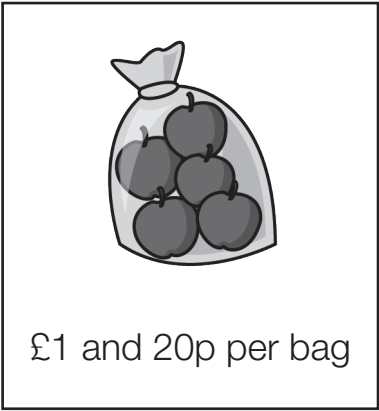
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2 marks

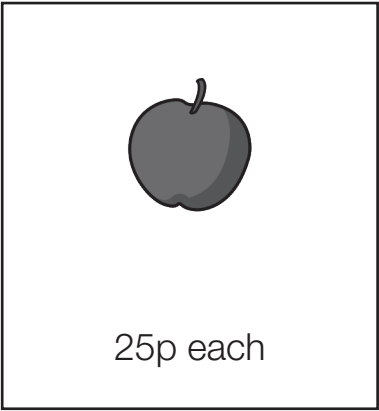
13

Jen has a £5 note.

Jen buys two single apples and a bag of apples.



£1 and 20p per bag



25p each

How much change does she get?

Show  
your  
method

|   |     |   |
|---|-----|---|
| £ | and | p |
|---|-----|---|

**and**

p

2 marks

14

Bella says  $\frac{1}{2}$  is greater than  $\frac{1}{3}$

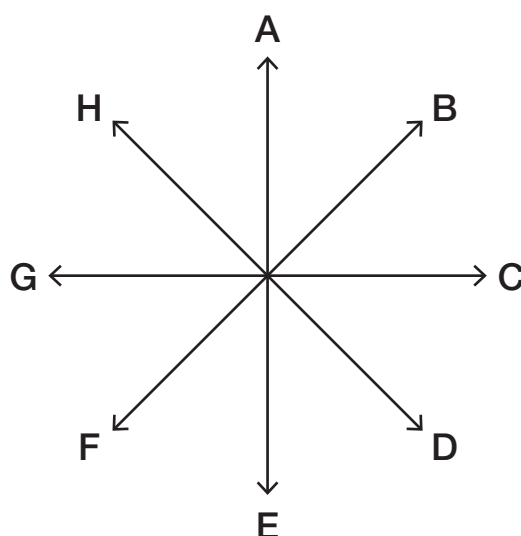
Prove Bella is correct.

You can use the bars to help you.

1 mark

15

Amir is facing A.



He turns through **two** right angles.

Which letter is Amir facing now?

1 mark

Susie is facing D.

She turns **anti-clockwise** through one right-angle.

Which letter is Susie facing now?

1 mark

16

There are red, purple and green sweets in a jar.

$\frac{2}{5}$  of the sweets are red.

$\frac{2}{5}$  of the sweets are green.

12 of the sweets are purple.

How many sweets are there altogether?

Show  
your  
method

2 marks

END OF TEST

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