1. Write the missing number to make this **division** correct.

$75 \div \square = 7.5$

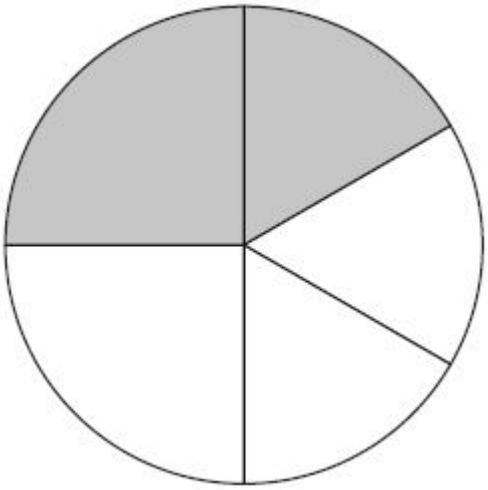
1 mark

2. Write the missing number to make this **division** correct.

$0.3 \div \square = 0.03$

1 mark

3. In this circle, $\frac{1}{4}$ and $\frac{1}{6}$ are shaded.



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

Show your method

2 marks

4. Jack has £400

He spends **35%** of his money on a new bike.

How much does Jack spend on his new bike?

£

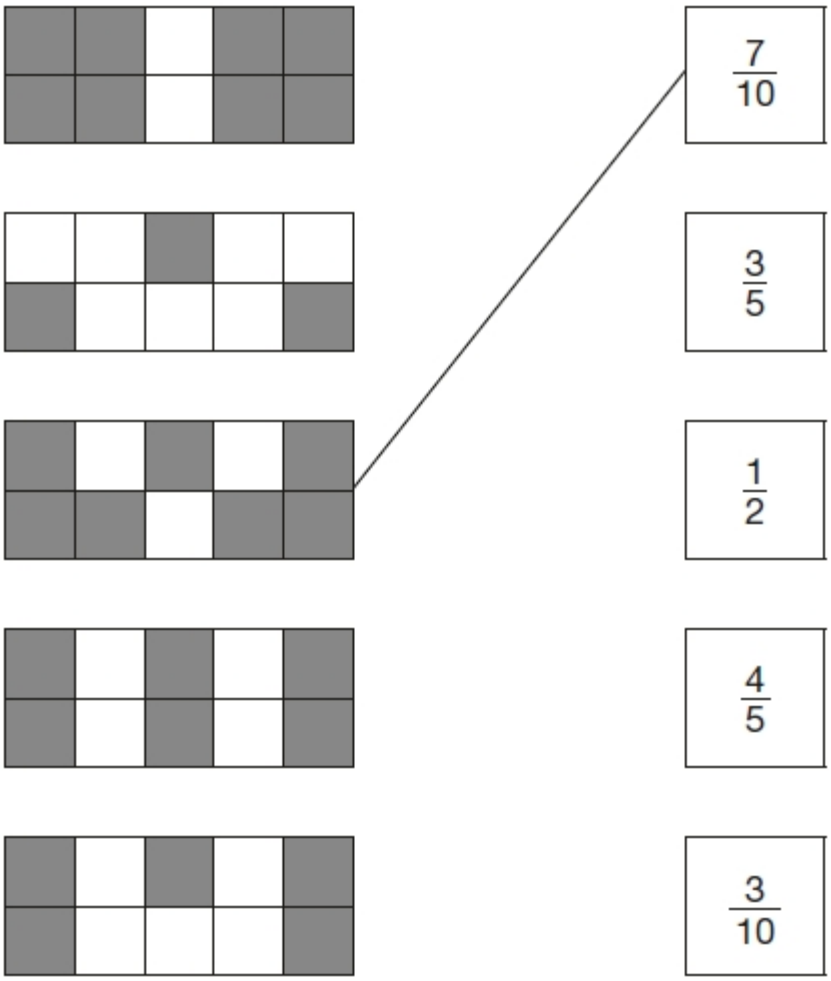
1 mark

5. Here are some shapes made of squares.

A fraction of each shape is shaded.

Match each shape to its equivalent fraction.

One has been done for you.



2 marks

6.

$\frac{6}{5}$ $\frac{3}{5}$ $\frac{3}{4}$

Write these fractions in order, starting with the **smallest**.

smallest

1 mark

7. Here are six cards.

× 10	× 100	× 1000
÷ 10	÷ 100	÷ 1000

Use a card to complete each calculation.

5.3 ☐ = 0.53

5.3 ☐ = 5300

5.3 ☐ = 0.053

2 marks

8. Write these masses in order, starting with the **lightest**.

1.25 kg 0.99 kg 1.025 kg 0.009 kg

kg	kg	kg	kg

lightest

1 mark

9. Tick the fractions **less than** $\frac{5}{8}$

$\frac{1}{2}$ ☐

$\frac{2}{8}$ ☐

$\frac{3}{4}$ ☐

$\frac{7}{16}$ ☐

$\frac{24}{32}$ ☐

2 marks

10. Amina asked 60 children to choose their favourite flavour of jelly.

These were her results.

Flavour	**Number of children**
Raspberry	12
Lemon	8
Orange	15
Blackcurrant	25
Total	**60**

What **percentage** of the 60 children chose orange?

☐ %

1 mark

Mark schemes

1. 10

[1]

2. 10

[1]

3. Award **TWO** marks for the correct answer of $\frac{7}{12}$

*Accept equivalent fractions or an **exact** decimal equivalent, e.g.* $0.53\overline{8}$

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $\frac{1}{4}+\frac{1}{6}=$

  $\frac{3}{12}+\frac{2}{12}=\frac{5}{12}$

  $1-\frac{5}{12}$

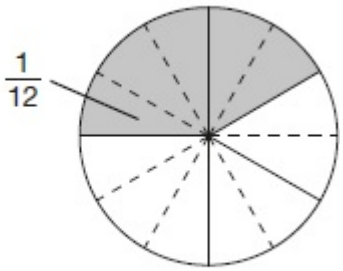
OR

- $\frac{1}{4}+\frac{1}{6}+\frac{1}{6}$

OR

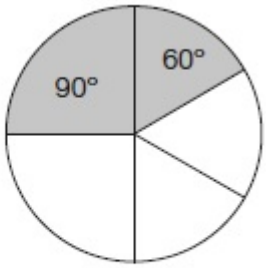
- $1-\frac{1}{4}-\frac{1}{6}$

OR

- 

$\frac{3}{12} + \frac{4}{12}$

OR

- 

$90° + 60° = 150°$

$1 - \frac{150}{360}$

*Accept for **ONE** mark an answer between 0.58 and 0.59 inclusive.*

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

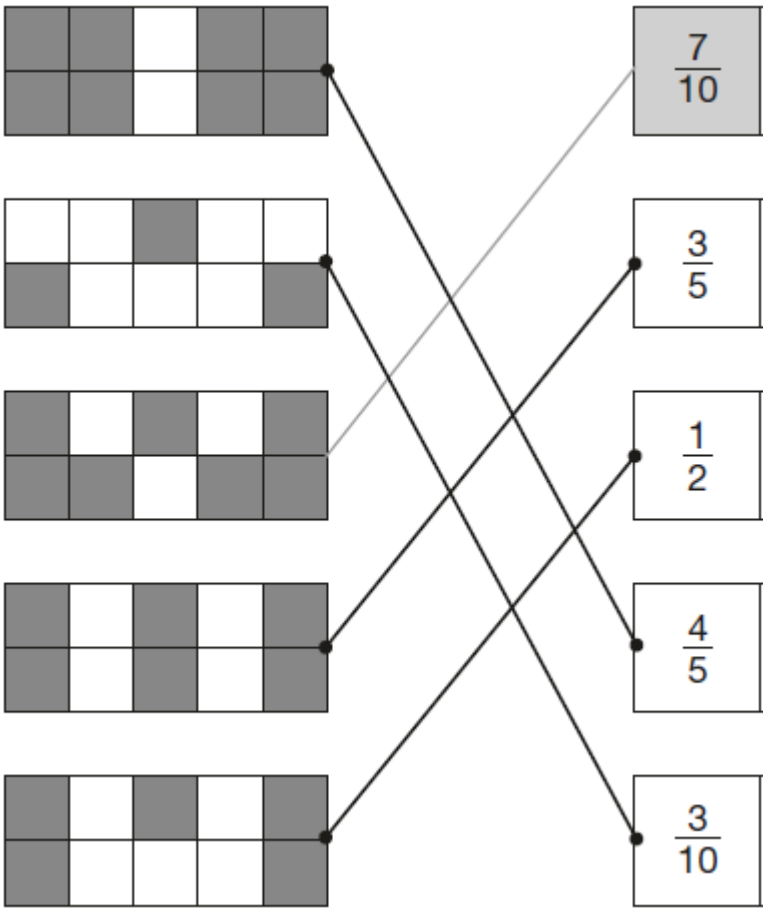
[2]

4. £140

***Do not** accept 140%*

[1]

5. Award **TWO** marks for four shapes matched correctly as shown:



If the answer is incorrect, award **ONE** mark for three shapes matched correctly.

Lines need not touch shapes or fraction boxes, provided the intention is clear.

***Do not** credit any shape that has been matched to more than one fraction.*

Up to 2

[2]

6. Fractions written in the correct order, as shown:

$\frac{3}{5}$ $\frac{3}{4}$ $\frac{6}{5}$

Accept the fraction joined to the correct box, rather than written in it.

***Do not** accept transcription errors or misreads for this question.*

[1]

7. Award **TWO** marks for all three calculations completed correctly, as shown:

5.3 [÷ 10] = 0.53

5.3 [× 1000] = 5300

5.3 [÷ 100] = 0.053

If the answer is incorrect, award **ONE** mark for two calculations correct.

Up to 2

[2]

8. Masses in correct order, as shown:

0.009 kg	0.99 kg	1.025 kg	1.25 kg

lightest

*All masses must be in the correct order for the award of **ONE** mark.*

*Accept for **ONE** mark the masses written in reverse order **AND** the label lightest has been changed to follow suit.*

*Misreads and transcription errors are **not** allowed.*

[1]

9. Award **TWO** marks for three boxes ticked correctly, as shown:

$\frac{1}{2}$	✓
$\frac{2}{8}$	✓
$\frac{3}{4}$	
$\frac{7}{16}$	✓
$\frac{24}{32}$	

Award **ONE** mark for:

- only two boxes ticked correctly and no incorrect boxes ticked

OR

- three boxes ticked correctly and one incorrect box ticked.

Accept alternative unambiguous positive indication of the correct answer, e.g. Y.

Up to 2m

[2]

10. 25

[1]