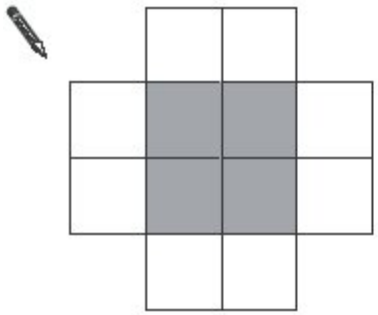
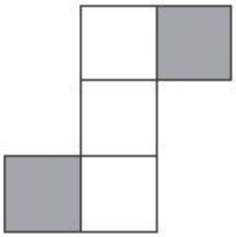
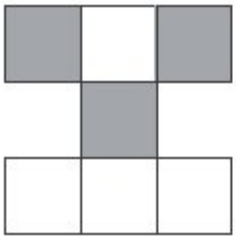
1 These diagrams are all made of squares.

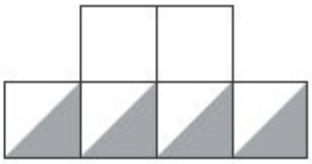
Look at each diagram.

Put a tick (✓) if exactly $\frac{1}{3}$ of it is shaded. Put a cross (✗) if it is not.









2 marks

2 $\frac{3}{4} = \frac{12}{?}$

1 mark

3 $\frac{2}{3} = \frac{12}{?}$

1 mark

4

$\frac{4}{5} = \frac{?}{100}$

1 mark

5

Two of the fractions below are **equivalent**.

Circle them.

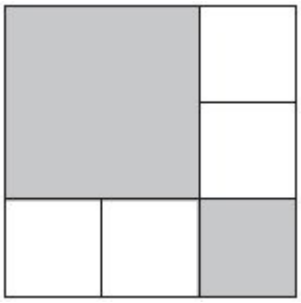
$\frac{2}{3}$ $\frac{6}{10}$ $\frac{9}{12}$ $\frac{10}{15}$ $\frac{16}{20}$

1 mark

6

The diagram is made of squares.

What fraction of the diagram is shaded?



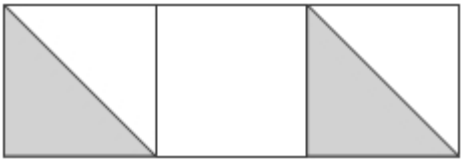
1 mark

7

$\frac{7}{9}$ of 45 =

1 mark

8



Holly says,

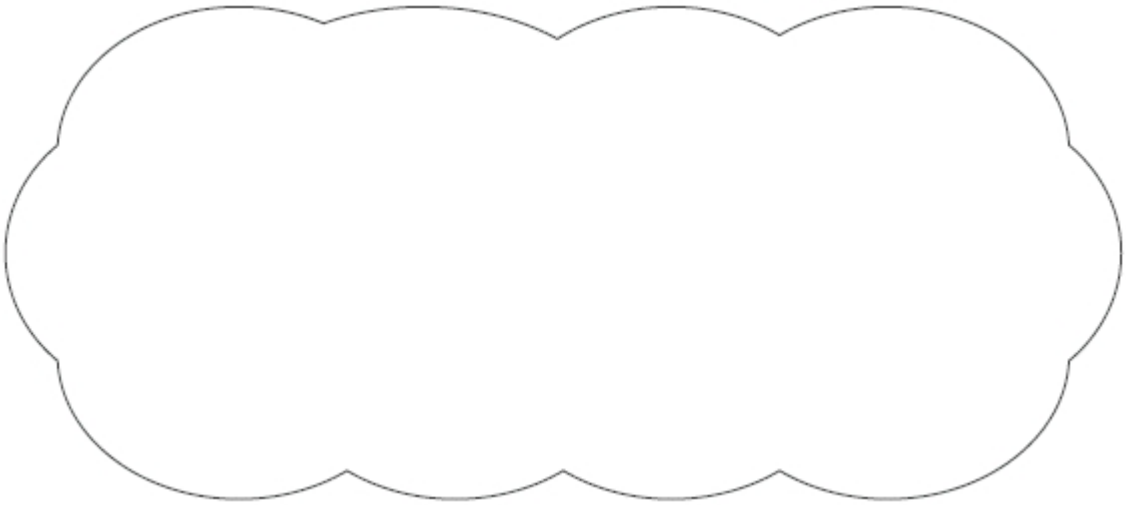
'One-third of this shape is shaded'.

Is Holly correct?

Circle **Yes** or **No**.

Yes / No

Explain how you know.



1 mark

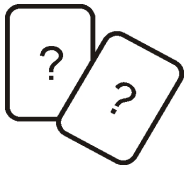
9

Calculate $\frac{3}{4}$ of **£15**

£

1 mark

10 Karen makes a fraction using two number cards.



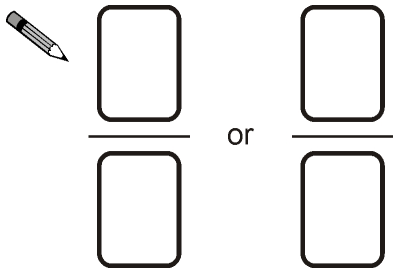
She says,

'My fraction is equivalent to $\frac{1}{2}$

One of the number cards is 6'

What could Karen's fraction be?

Give both possible answers.



2 marks

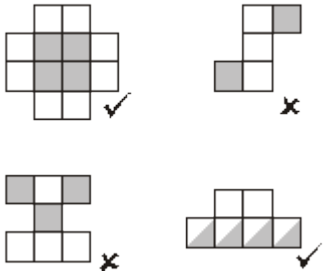
11 Circle the fraction that is greater than $\frac{1}{2}$ but less than $\frac{3}{4}$

$\frac{7}{8}$ $\frac{2}{5}$ $\frac{1}{3}$ $\frac{5}{8}$ $\frac{3}{6}$

1 mark

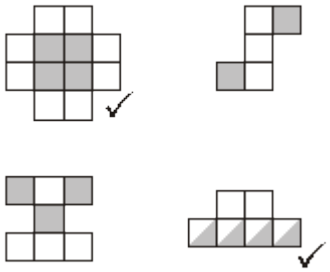
Mark schemes

1 Award **TWO** marks for diagrams ticked or crossed as shown:



Accept alternative unambiguous indications, eg ***Y*** *or* ***N****.*

For ***TWO*** *marks, accept:*



If the answer is incorrect, award **ONE** mark for three diagrams ticked or crossed correctly.

Up to 2

[2]

2 16

[1]

3 18

[1]

4 80

[1]

5 Two fractions circled as shown:

$\frac{2}{3}$ $\frac{6}{10}$ $\frac{9}{12}$ $\frac{10}{15}$ $\frac{6}{20}$

Do not *award the mark if additional incorrect fractions are circled.*

Accept alternative unambiguous indications, eg fractions ticked, crossed or underlined.

[1]

6 $\frac{5}{9}$

Accept equivalent fractions.

[1]

7 35

[1]

8 An explanation which recognises that the shaded area is equivalent to one-third, eg:

- ‘ $\frac{2}{6}$ is shaded and that is equivalent to $\frac{1}{3}$‘
- ‘2 out of 6 is the same as 1 out of 3’
- ‘2 out of 6’
- ‘ $\frac{2}{6}$ is shaded and $\frac{4}{6}$ is not shaded, which is the same as $\frac{1}{3}$ shaded and $\frac{2}{3}$ not shaded’
- ‘There are 3 squares, and 2 halves are shaded, and 2 halves make one whole’
- ‘The two shaded triangles are the same as one square and that is one out of three squares’
- ’1 square out of 3’
- ‘If you add the shaded parts together it makes one square’
- 

No mark is awarded for circling ‘Yes’ alone.

***Do not** accept vague or incomplete explanations, eg:*

- *’It’s equivalent to* $\frac{1}{3}$‘
- ‘ $\frac{1}{3}$ *is shaded and* $\frac{2}{3}$ *is not shaded’*
- *‘The two parts shaded add up to* $\frac{1}{3}$‘
- *‘Half of 2 squares are shaded’.*

If ‘No’ is circled but a correct, unambiguous explanation is given, then award the mark.

U1

[1]

9 £11.25

[1]

10 Award **TWO** marks for both fractions correct as shown:

$\frac{3}{6}$ OR $\frac{6}{12}$

If the answer is incorrect, award **ONE** mark for one fraction correct.

Accept fractions written in either order.

Up to 2

[2]

11 Fraction circled as shown:

$\frac{7}{8}$ $\frac{2}{5}$ $\frac{1}{3}$ $\frac{5}{8}$ $\frac{3}{6}$

Accept alternative unambiguous indications, eg fraction ticked, crossed or underlined.

[1]