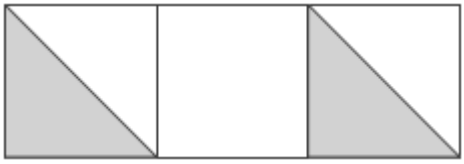
1



Holly says,

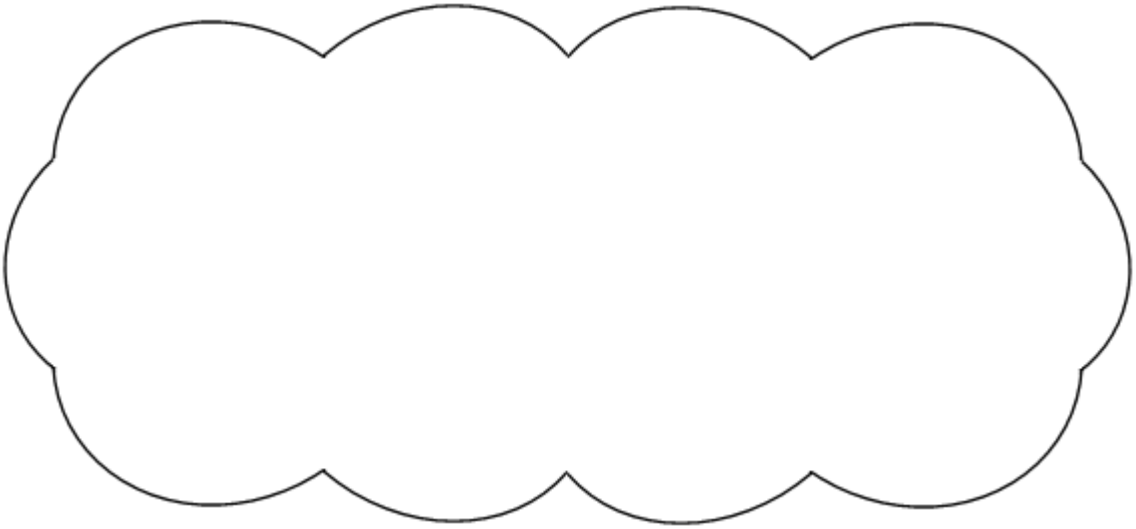
'One-third of this shape is shaded'.

Is Holly correct?

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

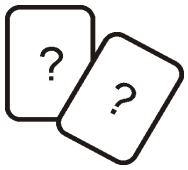
Yes / No

Explain how you know.



1 mark

2 Karen makes a fraction using two number cards.



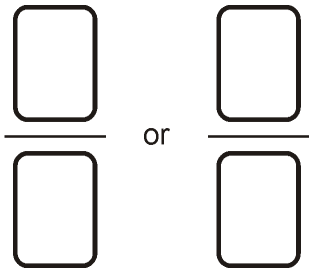
She says,

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

One of the number cards is 6'

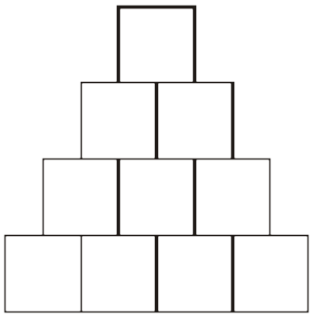
What could Karen's fraction be?

Give both possible answers.



2 marks

3 Shade $\frac{1}{5}$ of this shape.



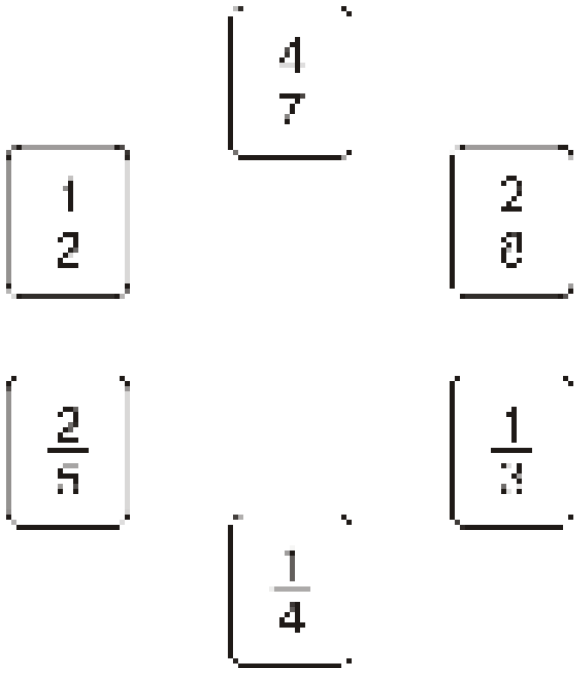
1 mark

4 Write the two missing values to make these equivalent fractions correct.

$$\frac{\square}{3} = \frac{8}{12} = \frac{4}{\square}$$

2 marks

5 Draw **one** line to join **two fractions** which have the **same value**.

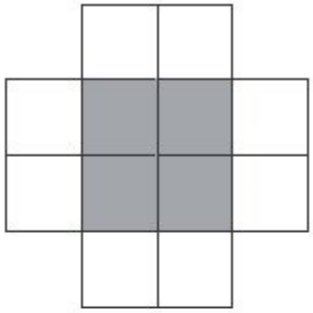


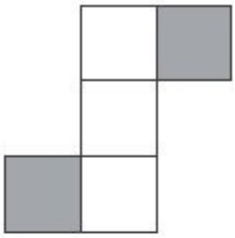
1 mark

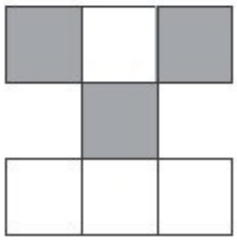
6 These diagrams are all made of squares.

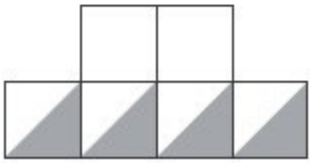
Look at each diagram.

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









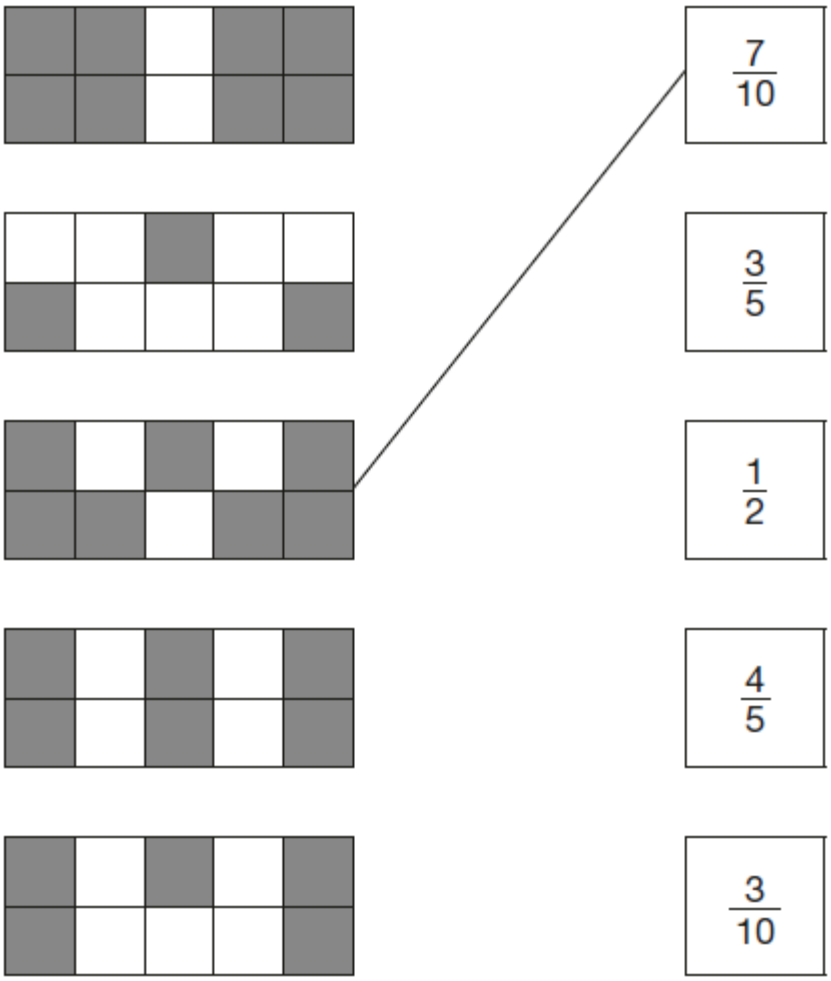
2 marks

7 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

Mark schemes

1 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]

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

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

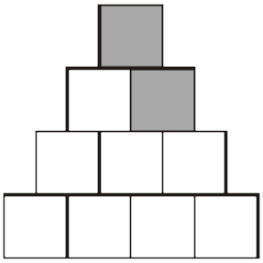
If the answer is incorrect, award **ONE** mark for one fraction correct.

Accept fractions written in either order.

Up to 2

[2]

3 Any two squares shaded, eg



Accept part shapes shaded provided the intention is clear.

Accept inaccuracies in shading provided the intention is clear.

[1]

4 $\frac{2}{3} = \frac{8}{12} = \frac{4}{6}$

[2]

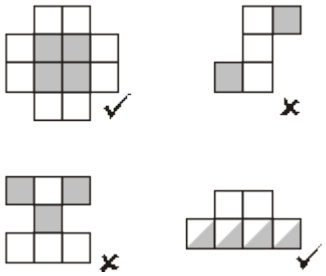
5 $\frac{2}{8}$ joined to $\frac{1}{4}$

The line need not touch the fractions, provided the intention is clear.

***Do not** award the mark if more than one pair of fractions are joined.*

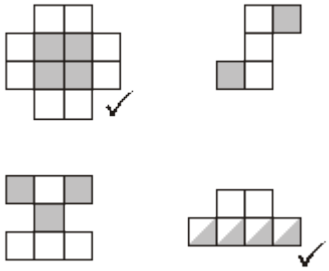
[1]

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



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

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

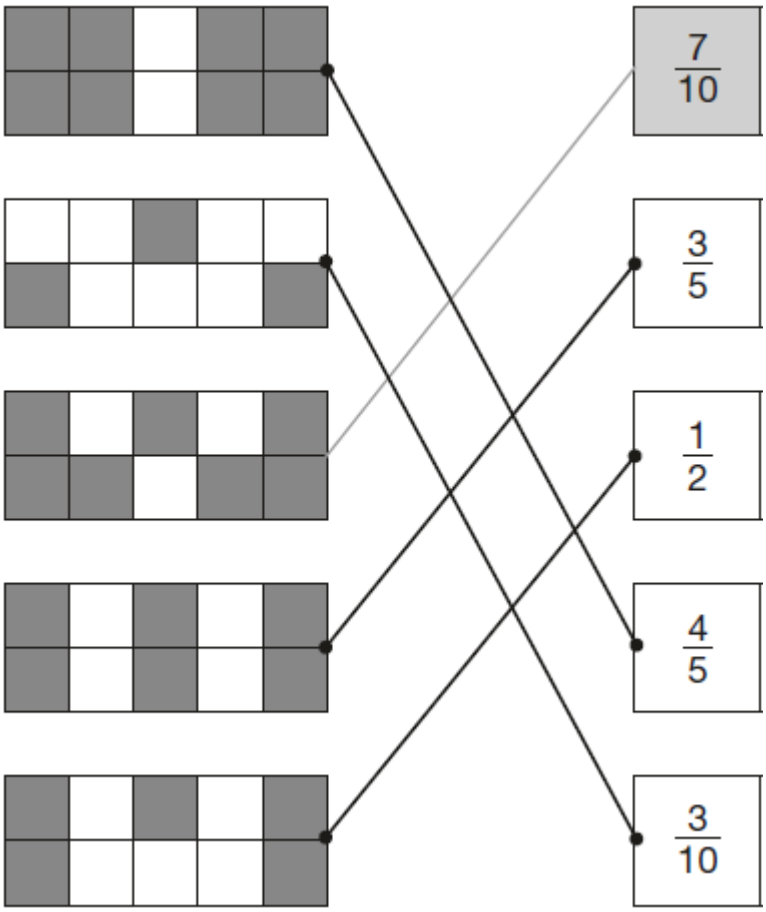


If the answer is incorrect, award **ONE** mark for three diagrams ticked or crossed correctly.

Up to 2

[2]

7 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]