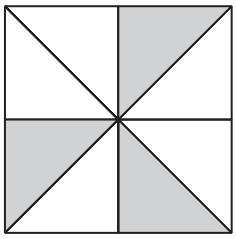
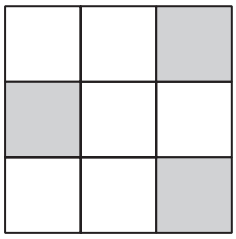
1

[2014]

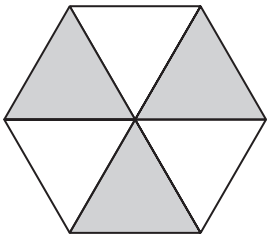
Each of these diagrams is divided into equal parts.
Some of the parts are shaded.



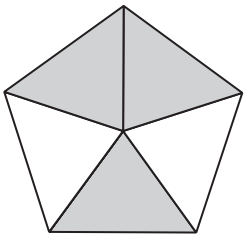
A



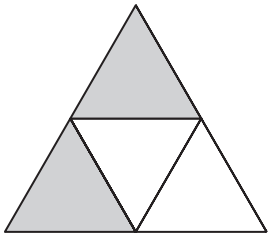
B



C



D



E

Write the letters of all the diagrams that have exactly $\frac{1}{2}$ shaded.

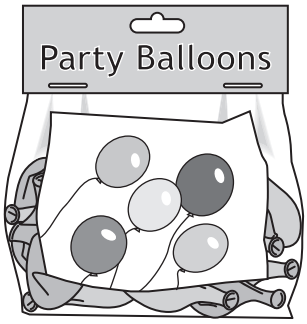
Which of the diagrams has exactly $\frac{1}{3}$ shaded?

[1 mark]

2

[2010]

Sarah has a packet of balloons.



The contents of the packet are

5 red balloons
5 blue balloons
10 yellow balloons

Sarah says,

'One-quarter of the balloons are red'.

Is Sarah correct?
Circle **Yes** or **No**.

Yes / No

Explain how you know.

[1 mark]

3

[2016]

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

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

[2 marks]

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

[2009]

Circle them.

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

[1 mark]

5 Complete these fractions to make each equivalent to $\frac{3}{5}$

[2001]

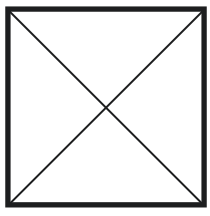
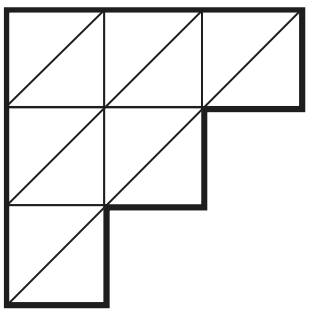
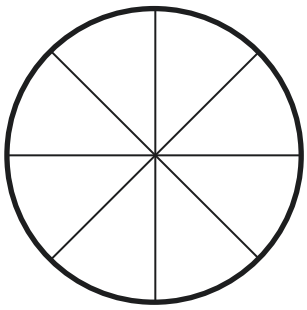
$\frac{\square}{10}$ $\frac{\square}{15}$ $\frac{12}{\square}$

[2 marks]

6 Each diagram below is divided into equal sections.

[2016]

Shade three-quarters of each diagram.

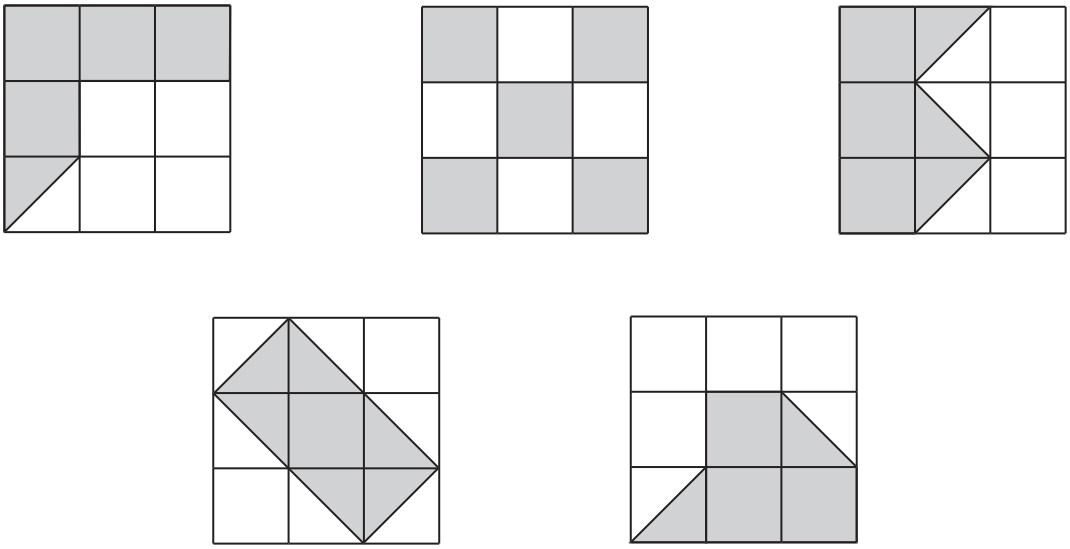




[2 marks]

7 Here are five diagrams.

[2007]

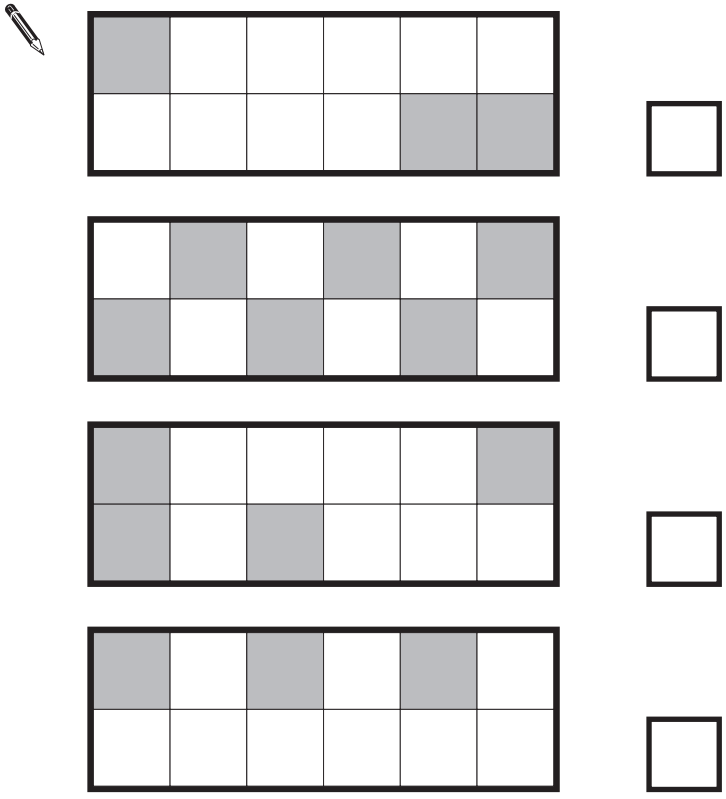
Put a tick (✓) on the diagram if exactly $\frac{1}{2}$ of it is shaded.
Put a cross (✗) if it is not.



[1 mark]

8 Tick (✓) each shape that is exactly $\frac{1}{4}$ shaded.

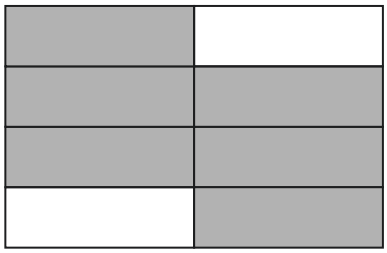
[2013]

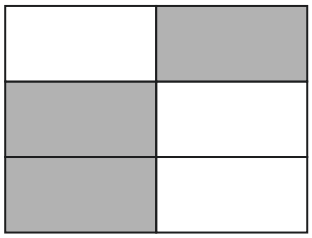


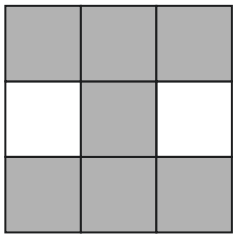
[2 marks]

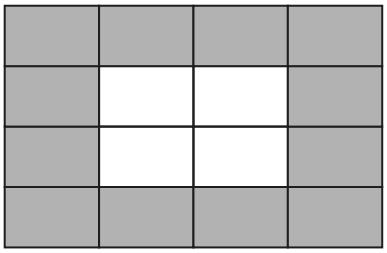
9 Tick two shapes that have $\frac{3}{4}$ shaded.

[2017]







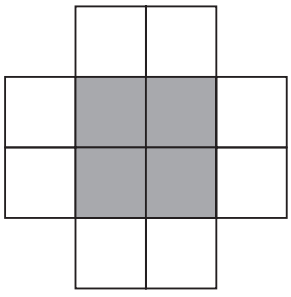


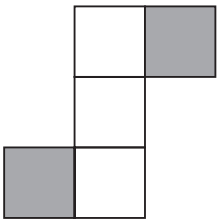
[1 mark]

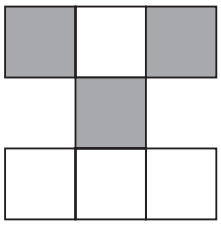
10 These diagrams are all made of squares.

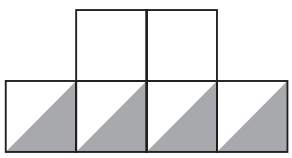
[2010]

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









[2 marks]

11 [2003]

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.

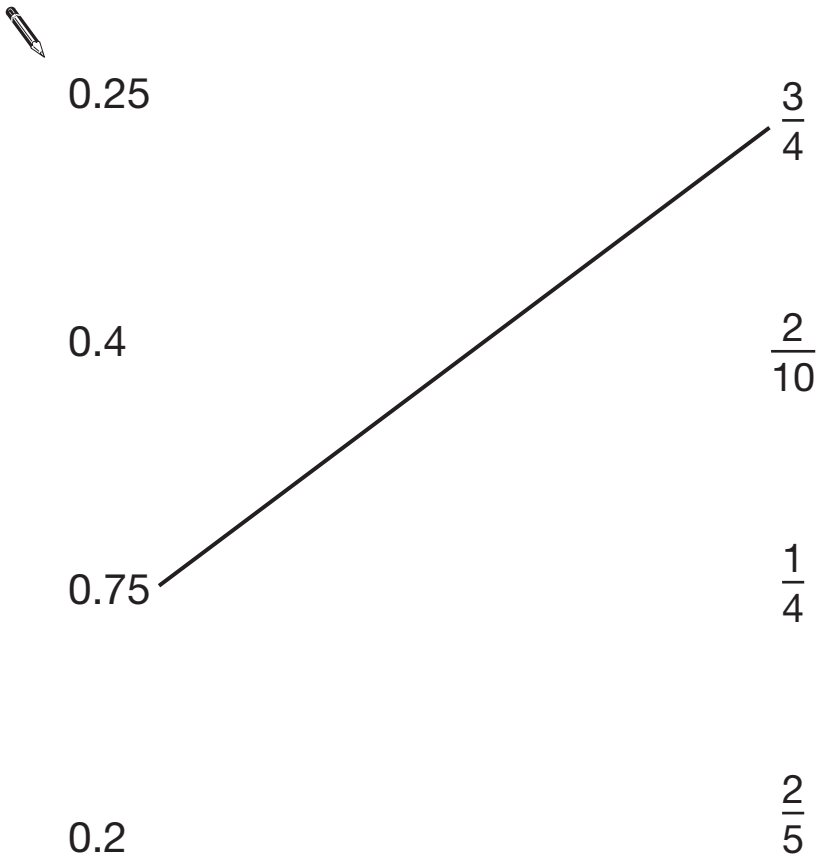
$\frac{\square}{\square}$ or $\frac{\square}{\square}$

[1 mark]

12 [2006]

Match each decimal number to its equivalent fraction.

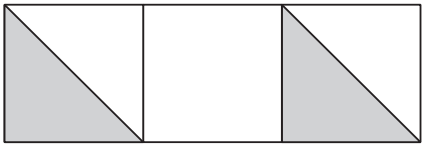
One has been done for you.



[2 marks]

13

[2011]



Holly says,

'One-third of this shape is shaded'.

Is Holly correct?
Circle **Yes** or **No**.

Yes / No

Explain how you know.

[1 mark]

14

[New]

Here are some digit cards.

2 3 4 5 6 8 9

Use **four** of the cards to complete these equivalent fractions.

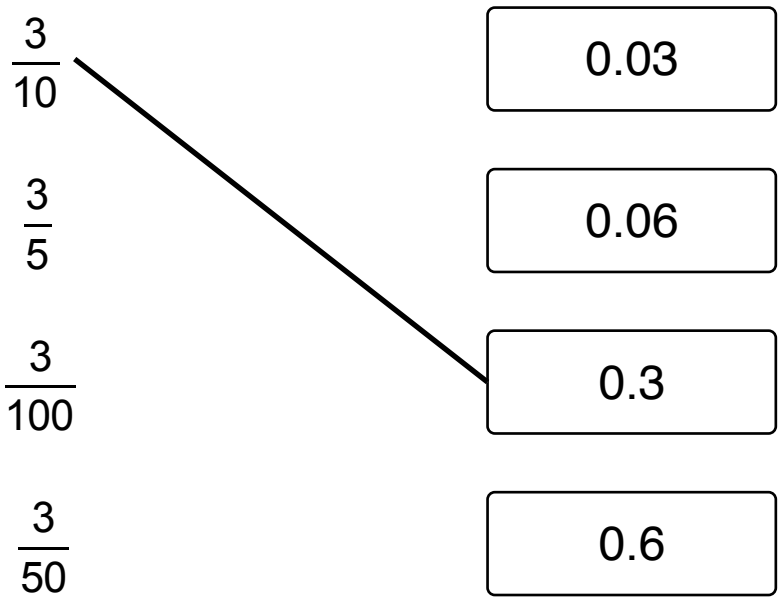
Each fractions is less than one.

$$\frac{\square}{3} = \frac{6}{\square} \qquad \frac{6}{\square} = \frac{\square}{4}$$

[1 mark]

15 Join each fraction to the correct decimal card.

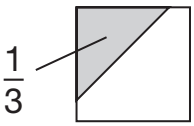
[2014] One has been done for you.



[2 marks]

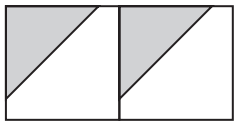
16 $\frac{1}{3}$ of this square is shaded.

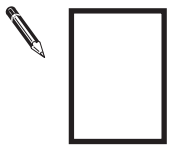
[2008]



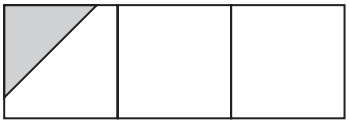
The same square is used in the diagrams below.

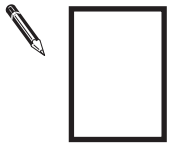
What fraction of this diagram is shaded?





What fraction of this diagram is shaded?





[2 marks]