

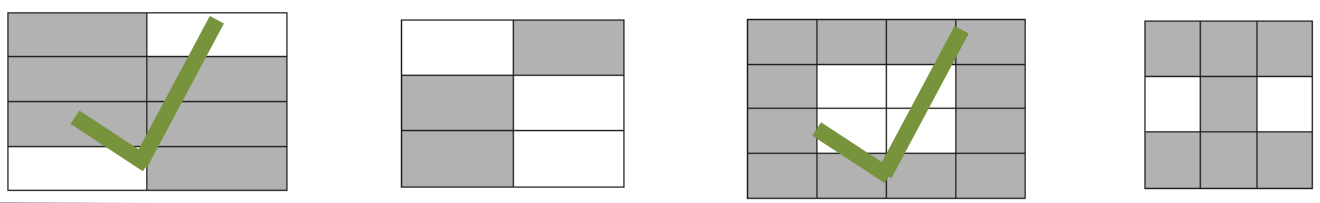


Help Code : 021

## FRACTIONS OF SHAPES



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



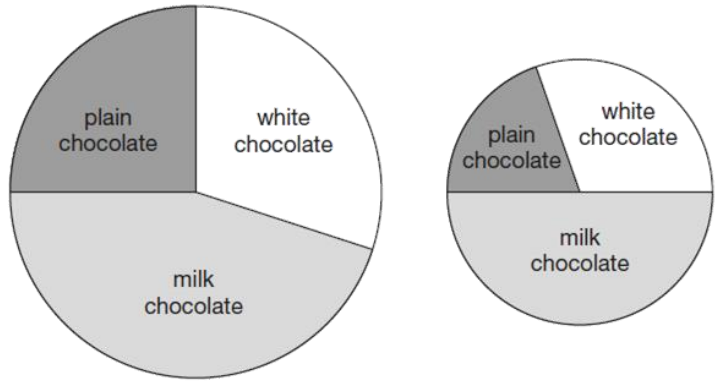
**10** Each diagram below is divided into equal sections.

Shade three-quarters of each diagram.

any 3      any 9      any 6

**4** 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.

**18** 100 girls and 50 boys were asked which kind of chocolate they like best. These two pie charts show the results.



Dev says, 100 girls

50 boys

"The pie charts show that more girls than boys liked milk chocolate best."

Dev is correct.



Explain how you know.

Half of 50 boys is 25 boys. Just under half of 100 girls is just under 50 which is more than 25 boys

# Y6 SATs

## Fractions of Shapes

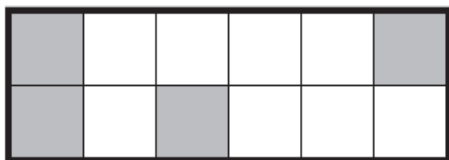
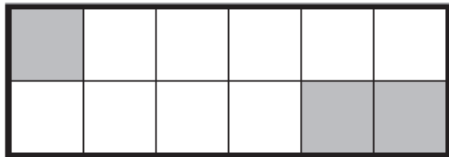
Help Code : 021

# BOOSTER

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



2013A KS2 Q14



This square has two dots on each side.



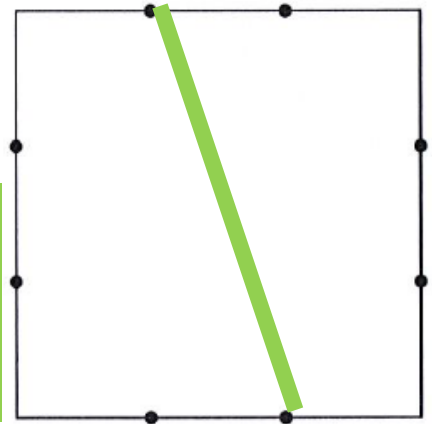
The dots are equally spaced.

Join two dots to divide the square into **two equal parts**.

Use a ruler.



Join any dot to the dot 4 dots away around the outside



Holly says,

*'One-third of this shape is shaded'*.

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

Yes  No

Explain how you know.

Because...if you put the two grey triangles together it would make a total of one whole grey square out of 3 squares. 1 out of 3 is a third.

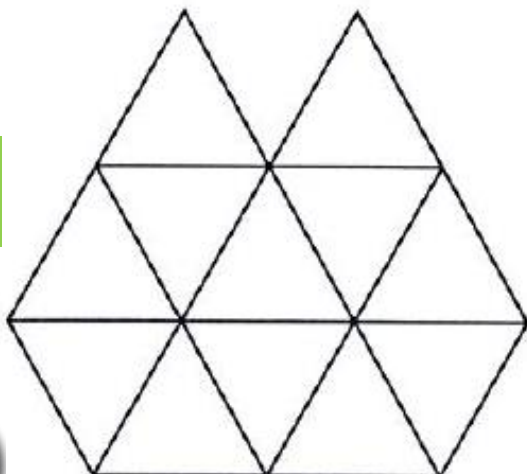


2011A KS2 Q15

2012A KS2 Q9

Shade  $\frac{1}{4}$  of this shape.

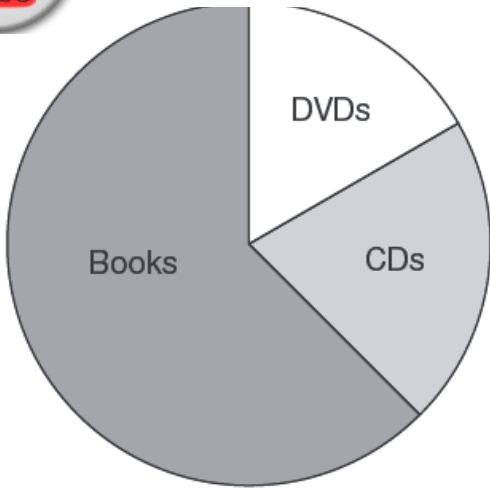
any 3 triangles





A shop sells books, CDs and DVDs.

2010A KS2 Q22



Estimate the **fraction** of the total sales that were DVDs.

1/5 or 1/6

In this week, 200 **CDs** were sold.

Estimate how many books were sold.

550-650

This pie chart shows the sales of each in one week.



40 children predicted who would win the boys' race at sports day.

2009A KS2 Q21

This pie chart shows their predictions.

What percentage of the children predicted that Stefan would win?

20%

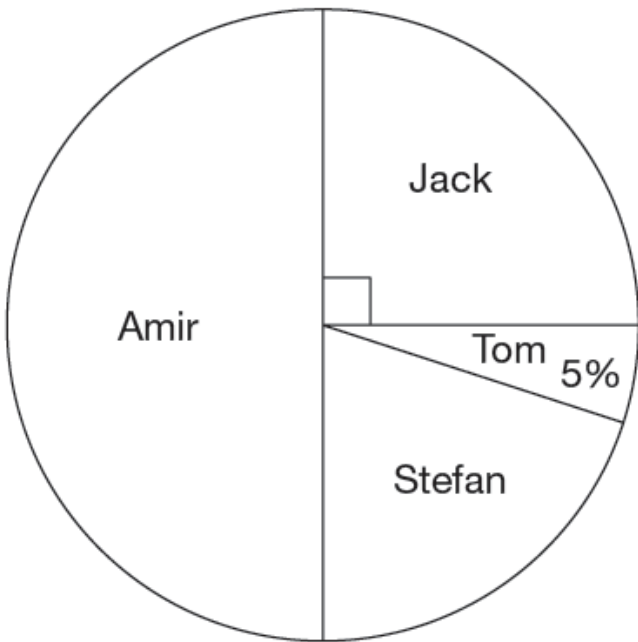
10 children predicted the winner of the race **correctly**.

Who won the race?

Jack

Explain how you know.

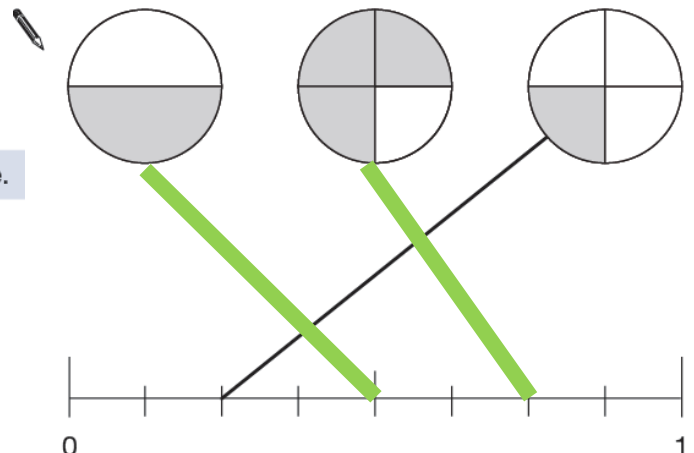
10 out of 40 is a quarter and the only person with  $\frac{1}{4}$  of the pie is Jack



A fraction of each shape is shaded.

Match each fraction to the correct place on the number line.

One has been done for you.

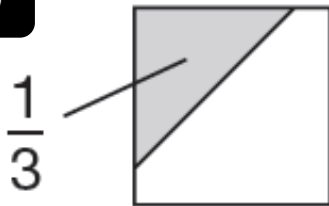


2009A KS2 Q9



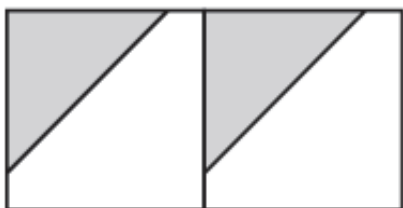
$\frac{1}{3}$  of this square is shaded.

2008A KS2 Q19



The same square is used in the diagrams below.

What fraction of this diagram is shaded?



$\frac{2}{6}$  or  $\frac{1}{3}$

What fraction of this diagram is shaded?



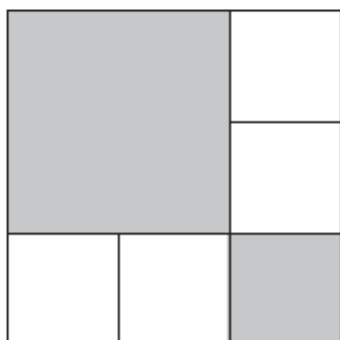
$\frac{1}{9}$



The diagram is made of squares.

What fraction of the diagram is shaded?

2005A KS2 Q11



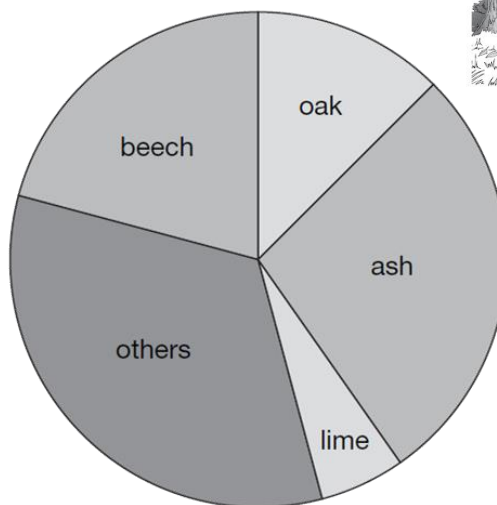
$\frac{5}{9}$



Class 6 did a survey of the number of trees in a country park.



This pie chart shows their results.



2006A KS2 Q20

Estimate the **fraction** of trees in the survey that are **oak** trees.

$\frac{1}{8}$

The children counted 60 **ash** trees.

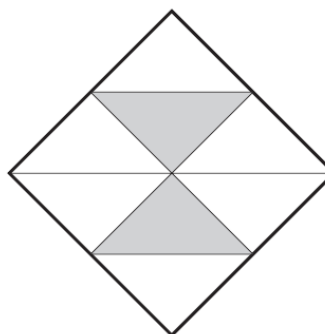
Use the pie chart to estimate the **number** of **beech** trees they counted.

35-45

Here is a square.



2004A KS2 Q2



$\frac{1}{4}$

What fraction of the square is shaded?

Here is a rectangle with 13 identical shaded squares inside it.

What fraction of the rectangle is shaded?

$\frac{13}{35}$

2003A KS2 Q18

