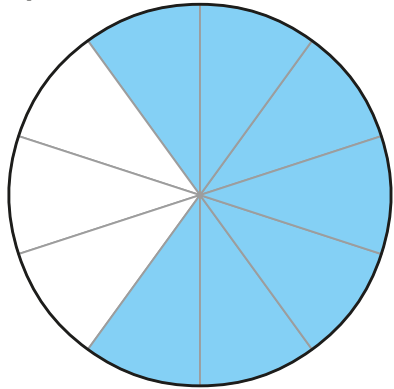


Use and interpret pie charts

1 What fraction and percentage of each pie chart is shaded?

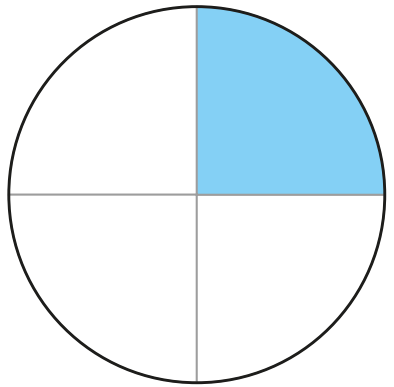
a)



fraction shaded = $\frac{7}{10}$

percentage shaded = 70%

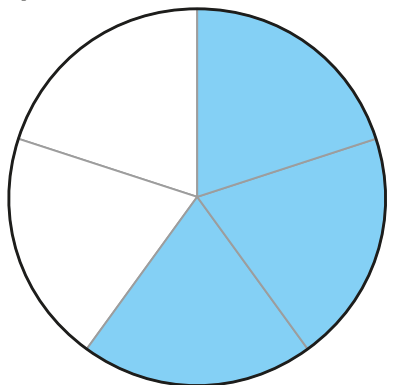
b)



fraction shaded = $\frac{1}{4}$

percentage shaded = 25%

c)

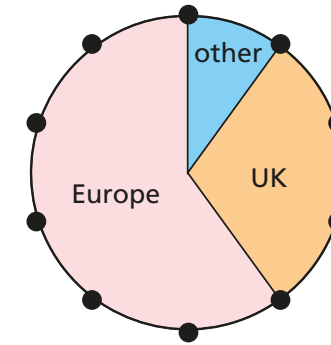


fraction shaded = $\frac{3}{5}$

percentage shaded = 60%

2

The pie chart shows where some families went on holiday.



a) What fraction of the families took a holiday in the UK? $\frac{3}{10}$

b) What percentage of the families went to Europe? 60%

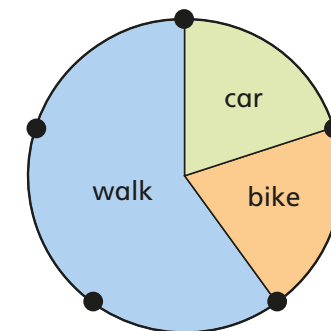
c) What proportion of families went to somewhere other than the UK or Europe?

Give your answer as a decimal.

0.1

3

The pie chart shows how students travel to school.



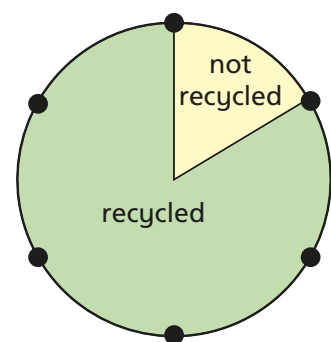
a) What percentage of students travelled to school by car? 20%

b) What proportion of children walk to school?

Give your answer as a fraction, decimal and percentage.

fraction = $\frac{3}{5}$ decimal = 0.6 percentage = 60%

- 4 The pie chart shows the amount of waste recycled by a school.



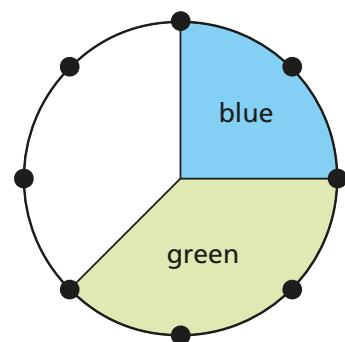
- a) How does the pie chart show that the school recycled more than they did not recycle?

The sector for recycled is larger.

- b) What fraction of the waste is recycled by the school?

$\frac{5}{6}$

- 5 Part of this pie chart is shaded blue.



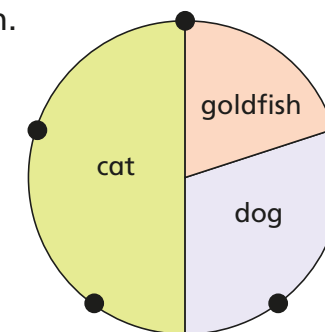
- a) What percentage of the pie chart is not blue?

75%

- b) What fraction of the pie chart is green?

$\frac{3}{8}$

- 6 The pie chart shows the pets that some students own.



- a) What percentage of students own a goldfish?

20%

- b) What percentage of students own a dog?

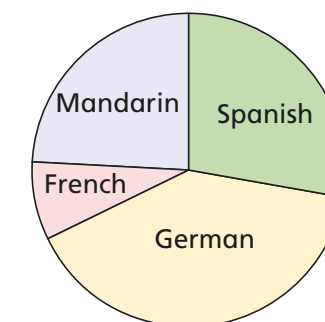
30%

Explain how you worked out your answer.

e.g. 20% own a goldfish, 50% own a cat so the remaining 30% is dog.

- 7 Some students took part in a survey about their favourite language.

The pie chart shows the results.



- a) Estimate the percentage of students that chose each language.

E.g.

Mandarin = 20%

Spanish = 30%

French = 10%

German = 40%

- b) Add up your percentages.

What do you notice?