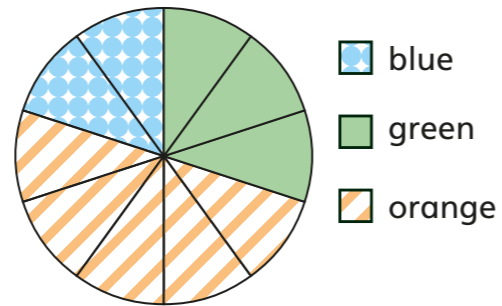


Interpret simple pie charts using proportion

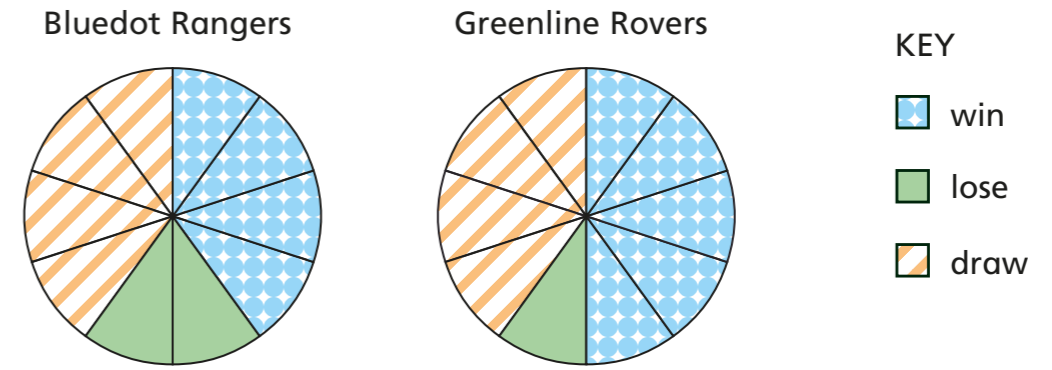
1 The pie chart shows the favourite colour of the students in a class.



- a) What was the most popular colour? orange
- b) What was the least popular colour? blue
- c) What fraction of the students chose orange?
Give your answer in its simplest form. $\frac{1}{2}$
- d) What fraction of the students chose green?
Give your answer in its simplest form. $\frac{3}{10}$
- e) What fraction of the students chose blue?
Give your answer in its simplest form. $\frac{1}{5}$
- f) There are 30 students in the class.
How many students does each section of the pie chart represent? 3
- g) How many students chose blue or orange? 21

Compare methods with a partner. Did you work this out the same way?

2 The pie charts show the proportions of matches that two sports teams won, lost or drew.



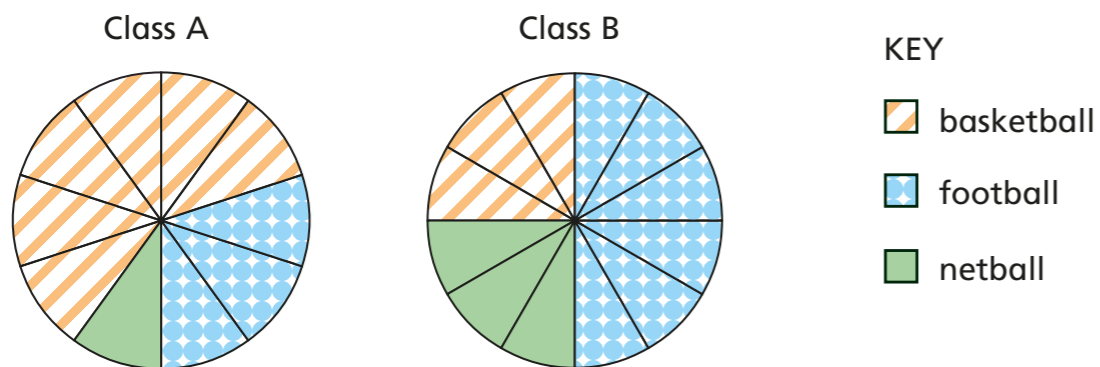
Decide if each statement is true or false or whether there is not enough information.

Explain your answers.

- a) Bluedot Rangers and Greenline Rovers played the same number of games.
Not enough information.
- b) Bluedot Rangers won and drew an equal number of games.
True.
- c) Greenline Rovers won more games than Bluedot Rangers.
Not enough information.
- d) Greenline Rovers won a greater proportion of their games than Bluedot Rangers did.
True.

Which team is more successful? Why?

- 3 Students from two classes were asked to choose their favourite sports. The pie charts show the results.



- a) Is this statement true or false?

In class A, twice as many students chose football as chose basketball.

Explain your answer.

True.

- b) Is this statement true or false?

In class B, twice as many students chose football as chose basketball.

Explain your answer.

True

- c)

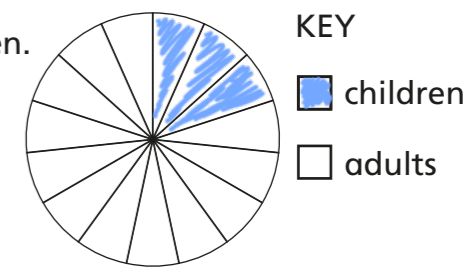


More students like football in class B than in class A.

Do you agree with Whitney? No

Explain your answer.

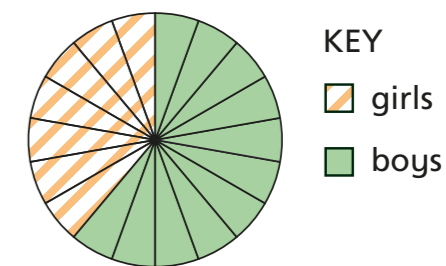
- 4 In a supermarket, $\frac{1}{5}$ of the people are children. The rest are adults.



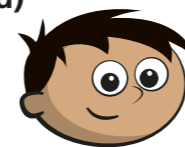
- a) Shade the pie chart and complete the key to represent the information.
b) There are 180 adults in the supermarket. How many children are there?

45

- 5 The pie chart shows the proportion of boys and girls in a youth club.



- a)



There are 4 more boys than girls in the youth club.

Explain why Amir is wrong.

Each section doesn't necessarily represent one person.

- b) There are 20 more boys than girls in the youth club. How many members of the youth club are there in total?

90