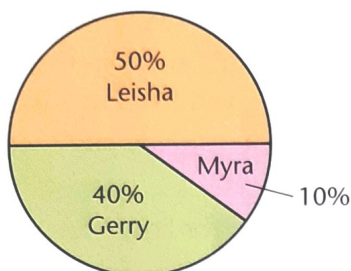


**TARGET** To interpret and construct pie charts.

## Example 1

The pie chart shows the 350 votes cast for the three candidates in an election.



How many votes did each candidate receive?

Leisha	Myra	Gerry
50% of 350	10% of 350	40% of 350
$350 \div 2$	$350 \div 10$	$(350 \div 10) \times 4$
175 votes	35 votes	$35 \times 4$
		140 votes

## Example 2

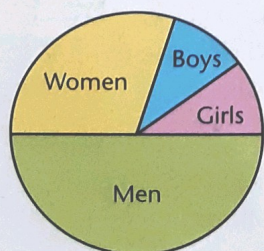
Draw a pie chart to show the 200 runners taking part in a fun run.

Men	100	Boys	20
Women	60	Girls	20

A. Find the angle at the centre of each sector.

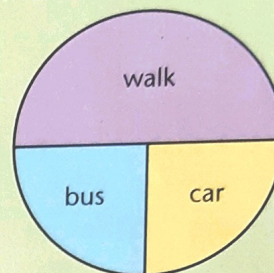
Boys/Girls	Men	Women
$\frac{20}{200} = \frac{1}{10}$	$\frac{100}{200} = \frac{1}{2}$	$\frac{60}{200} = \frac{3}{10}$
$360^\circ \div 10$	$360^\circ \div 2$	$(360^\circ \div 10) \times 3$
$36^\circ$	$180^\circ$	$36^\circ \times 3$
		$108^\circ$

B. Draw the pie chart.



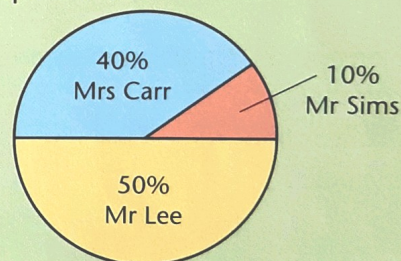
## A

1 The pie chart shows how the 28 children in one class come to school.



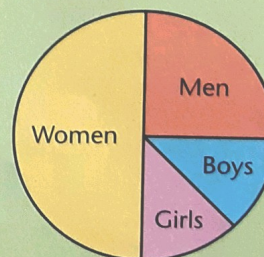
- How many children travel by bus?
- How many children walk?
- How many children travel by car?
- What is the angle at the centre of the yellow sector?

2 The pie chart shows the number of votes received by candidates for a local council. 750 people voted.



How many people voted for each candidate?

3 The pie chart shows the 240 members of the audience at a cinema.

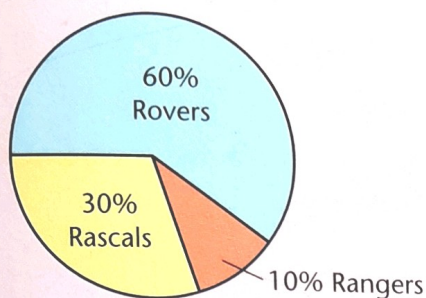


- How many women were in the audience?
- How many men?
- How many girls?
- What is the angle at the centre of the blue sector?

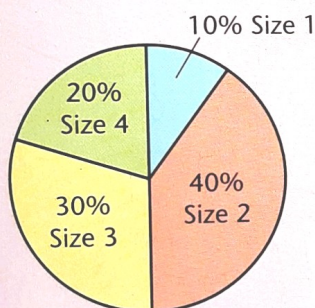


**B**

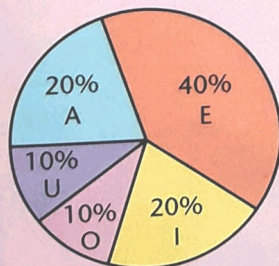
- 1 The votes of 20 children choosing a name for their village football team.



- a) How many children voted for each name?
- b) What is the angle at the centre of the red sector?
- 2 The size of shoe worn by the 90 children in Year 5.



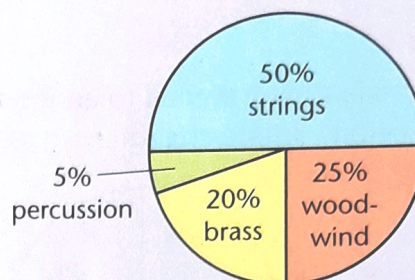
- a) How many children wear each size of shoe?
- b) What is the angle at the centre of each sector?
- 3 The first 300 vowels in a book.



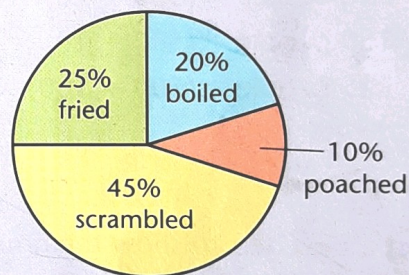
- a) How many are there of each vowel?
- b) Construct the pie chart.

**C**

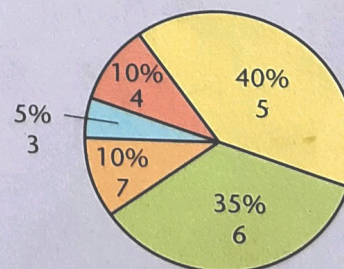
- 1 The instruments played by the 60 members of an orchestra.



- a) How many players are there in each section of the orchestra?
- b) What is the angle at the centre of the green sector?
- 2 How 500 people prefer to eat eggs.



- a) How many of the people asked preferred each of the four ways of cooking eggs?
- b) Give the angle at the centre of each sector.
- 3 Eighty golfers played in a tournament. These are the scores they made at the most difficult hole on the course.



- a) How many golfers made each score?
- b) Construct the pie chart.