Draw pie charts

1 The frequency table shows the favourite colours of a group of children.
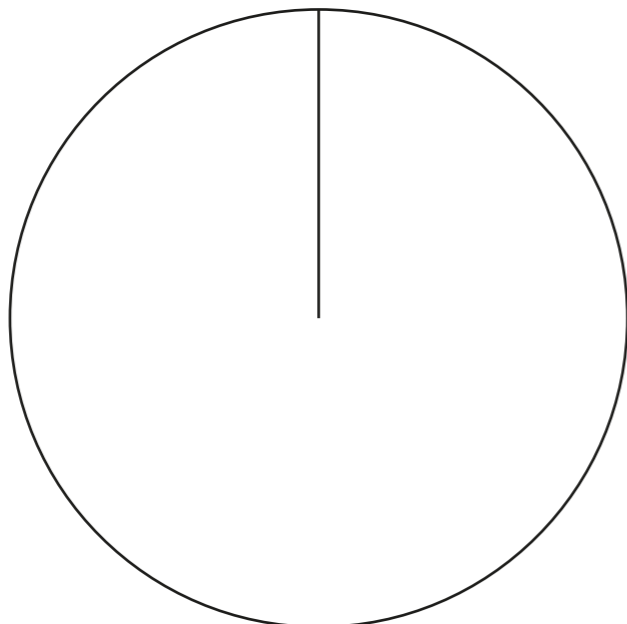
Colour	red	blue	green	other
Frequency	18	7	8	3
Angle of sector	180	70	80	30

a) Filip is drawing a pie chart to represent the data.

First he needs to work out the angle of each sector.

Here are his workings.

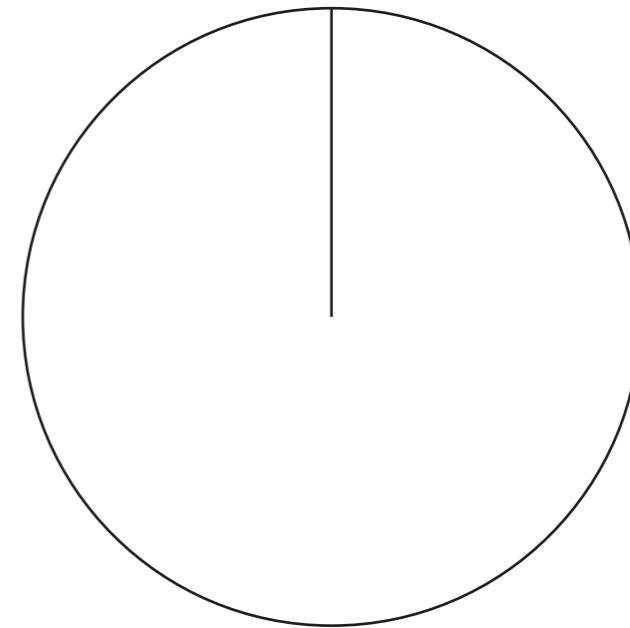$$\frac{18}{36} = \frac{180}{360} \qquad \text{Angle of sector for red} = 180°$$

Discuss Filip's method with a partner.

b) Complete the table to show the angle for each sector on the pie chart.
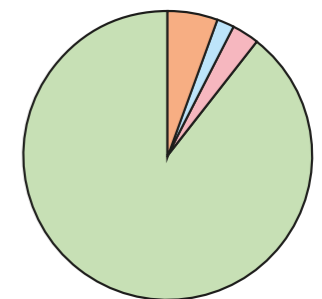
c) Complete the pie chart.

2 The table shows information about how students in Year 7 travel to school.

Complete the table and draw a pie chart to represent the data.

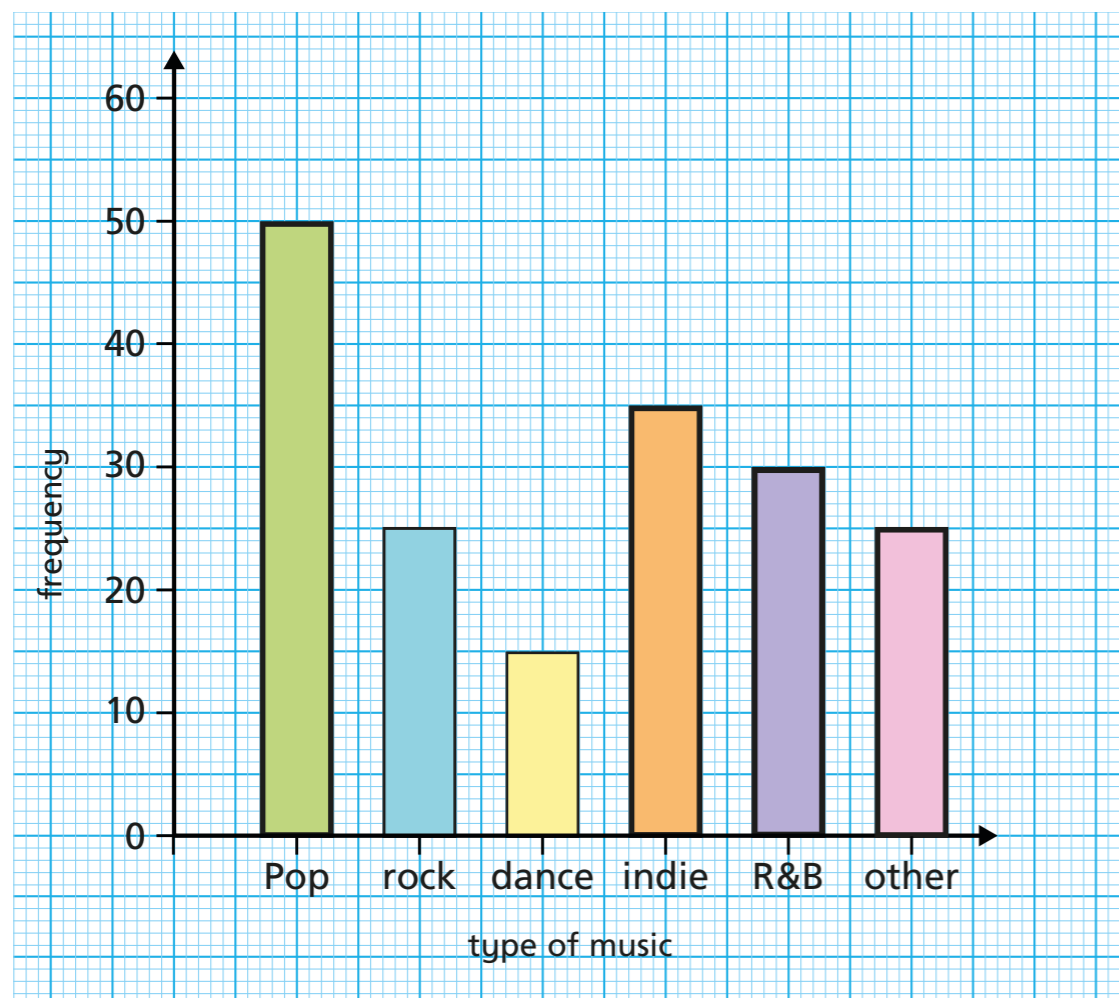| Transport	bus	walk	car	bike
Frequency	31	56	25	8
Angle of sector	93	168	75	24

3 The table shows the numbers of wins, losses and draws that a football team had in a season.

Dani has drawn a pie chart to represent the data.

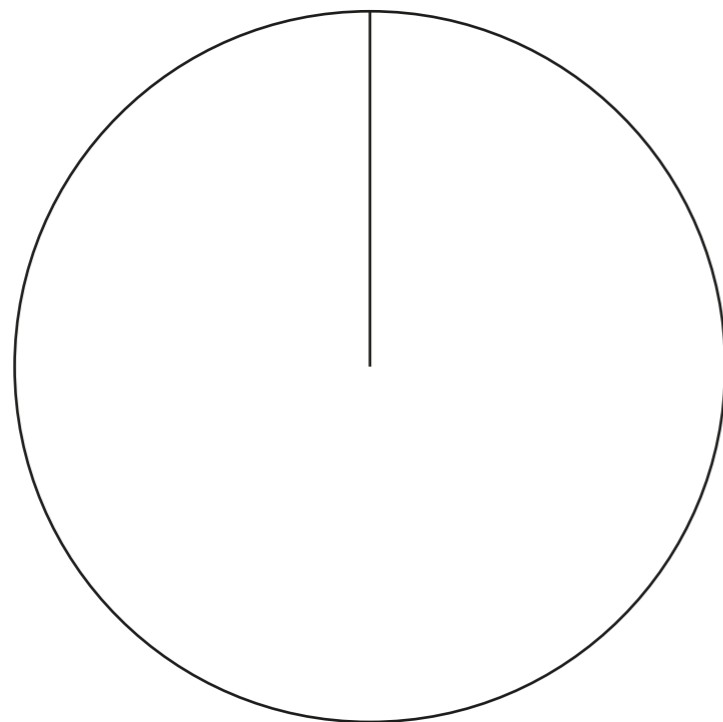| Result	win	loss	draw
Frequency	20	7	11

Do you agree with Dani? _____No_____

Explain your answer.

4 A group of people were asked to vote for their favourite type of music.

The results are shown in the bar chart.

Draw a pie chart to represent the data.

5 A group of 45 people were asked to choose their favourite activity.

Complete the table and draw a pie chart to represent the data.

Result	Frequency	Angle of sector
read	17	136°
draw	4	32°
play sport	9	72°
play computer games	6	48°
other	9	72°