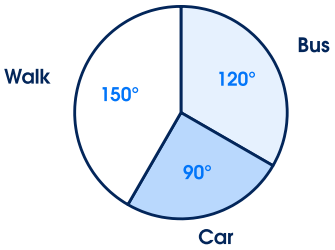
GCSE FOUNDATION · REVISION MAT 1

Pie charts

1 The pie chart shows how 60 people travel to work.



How many people chose Bus?

2 The table shows some data.

Bus	Car	Walk	Bike
12	8	15	5

Work out the angle for each sector of a pie chart.

3 Class A and class B each drew a pie chart of how they travel to school.
The sector for walking is bigger in class A's pie chart.

Jo says more students walk in class A.

Explain why Jo might be wrong.

4 120 people were asked how they travel. 32 said Bus.

Show that the angle for Bus in a pie chart is 96°.

5 In a pie chart, the angle for Football is 120°. This represents 30 people.

The angle for Rugby is 80°.

(a) How many people are in the survey?

(b) How many chose Rugby?

6 In a pie chart about favourite sports, the angle for Tennis is 54°.

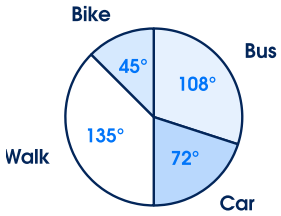
What percentage of people chose Tennis?

Mr&Mrs MATHS

1 120 ÷ 360 × 60 = **20**

2 Each person = 360 ÷ 40 = 9°

Bus **108°**, Car **72°**, Walk **135°**, Bike **45°**



3 A pie chart shows proportions, not numbers.

If class B has many more students, more of them could walk even with a smaller sector.

ANSWERS · REVISION MAT 1

Pie charts

4 32 ÷ 120 × 360 = **96°** ✓

5 120° = 30, so 1° = 0.25

(a) 360 × 0.25 = **90**

(b) 80 × 0.25 = **20**

6 54 ÷ 360 × 100 = **15%**