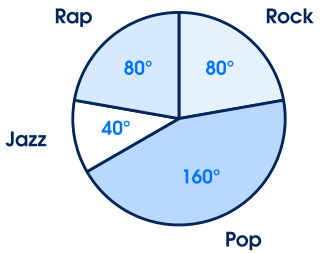
GCSE FOUNDATION · REVISION MAT 3

Pie charts

1 The pie chart shows how 90 people travel to work.



How many people chose Rock?

2 The table shows some data.

Maths	Art	PE	Music
18	12	24	6

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.

4 140 people were asked how they travel. 28 said Walk.

Show that the angle for Walk in a pie chart is 72°.

5 In a pie chart, the angle for Blue is 72°. This represents 12 people.

The angle for Red is 150°.

(a) How many people are in the survey?

(b) How many chose Red?

6 In a pie chart about favourite sports, the angle for Rugby is 72°.

What percentage of people chose Rugby?

Mr&Mrs MATHS

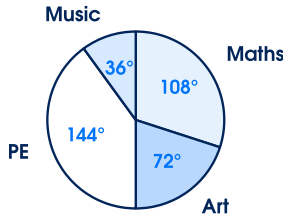
ANSWERS · REVISION MAT 3

Pie charts

1 80 ÷ 360 × 90 = **20**

2 Each person = 360 ÷ 60 = 6°

Maths **108°**, Art **72°**, PE **144°**, Music **36°**



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.

4 28 ÷ 140 × 360 = **72°** ✓

5 72° = 12, so 1° = 0.166667

(a) 360 × 0.166667 = **60**

(b) 150 × 0.166667 = **25**

6 72 ÷ 360 × 100 = **20%**