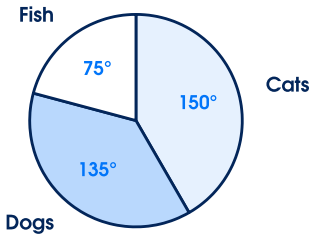
GCSE FOUNDATION · REVISION MAT 4

# Pie charts

**1** The pie chart shows how 48 people travel to work.




How many people chose Cats?

**2** The table shows some data.

| Sun | Rain | Cloud |
|---|---|---|
| 20 | 15 | 25 |

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** 80 people were asked how they travel. 24 said Train.

Show that the angle for Train in a pie chart is 108°.

**5** In a pie chart, the angle for Yes is 160°. This represents 40 people.

The angle for No is 120°.

(a) How many people are in the survey?

(b) How many chose No?

**6** In a pie chart about favourite sports, the angle for Netball is 162°.

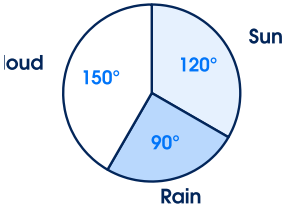
What percentage of people chose Netball?

Mr&Mrs MATHS

**1** 150 ÷ 360 × 48 = **20**

**2** Each person = 360 ÷ 60 = 6°

Sun **120°**, Rain **90°**, Cloud **150°**




**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 4

# Pie charts

**4** 24 ÷ 80 × 360 = **108°** ✓

**5** 160° = 40, so 1° = 0.25

(a) 360 × 0.25 = **90**

(b) 120 × 0.25 = **30**

**6** 162 ÷ 360 × 100 = **45%**