

1 Map scales

On a plan of a school, 1 cm represents 4 m.

- a) The hall is 9 cm long on the plan. How long is the real hall?
- b) A corridor is 28 m long. How long is it on the plan?

a) $9 \times 4 = 36 \text{ m}$
b) $28 \div 4 = 7 \text{ cm}$

2 Map scales: measuring

- a) Measure the distance from A to B on this map.
Work out the real distance.
 - b) A lake is 7 km from A. How far is that on the map?
- Scale: 1 cm represents 2 km

A •

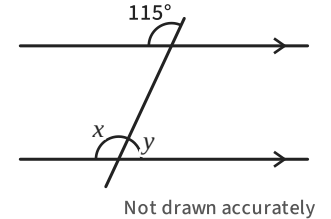
• B

a) $6 \text{ cm} \times 2 = 12 \text{ km}$
b) $7 \div 2 = 3.5 \text{ cm}$

3 Angles on parallel lines

Corresponding angles are equal.

- a) Write down angle x.
- b) Work out angle y.

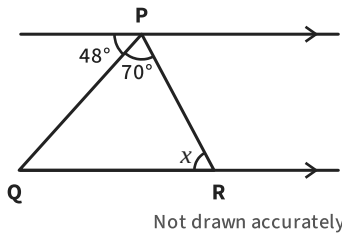


a) $x = 115^\circ$
b) $180 - 115 = 65^\circ$

4 Angles on parallel lines

The two horizontal lines are parallel.
Alternate angles are equal.

- a) Write down angle PQR.
- b) Work out angle x.



a) 48°
b) $180 - 48 - 70 = 62^\circ$

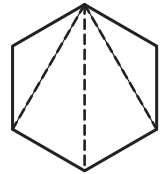
Angles 2

revision mat answers

Foundation B

5 Angles in regular polygons

- a) The hexagon is split into 4 triangles. Work out the sum of its interior angles.
- b) The hexagon is regular. Work out the size of one interior angle.

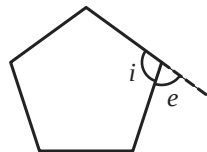


a) $4 \times 180 = 720^\circ$
b) $720 \div 6 = 120^\circ$

6 Angles in regular polygons

This is a regular pentagon.
Exterior angles add up to 360° .

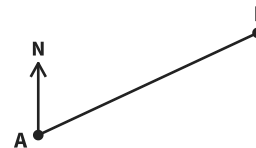
- a) Work out angle e.
- b) Work out angle i.



a) $360 \div 5 = 72^\circ$
b) $180 - 72 = 108^\circ$

7 Bearings

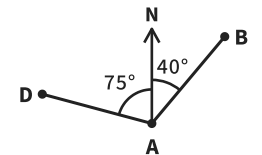
- a) Measure the bearing of B from A.
- b) C is due south of A. Write down the bearing of C from A.



a) 065°
b) 180°

8 Bearings

- a) Write down the bearing of B from A.
- b) Work out the bearing of D from A.



a) 040°
b) $360 - 75 = 285^\circ$