

1 Map scales: measuring

- a) Measure the distance from the harbour to the kiln on this map. Work out the real distance in km.
- b) A café is 2.1 km from the kiln. How far is that on the map?

Harbour •

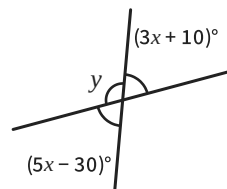
Scale 1 : 25 000

Kiln •

2 Angle facts

Two straight lines cross.

- a) Work out the value of x .
- b) Work out the size of angle y .

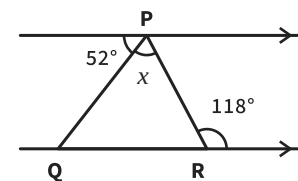


Not drawn accurately

3 Angles on parallel lines

The two horizontal lines are parallel.

- a) Work out angle PQR. Give a reason.
- b) Work out x . Give reasons.



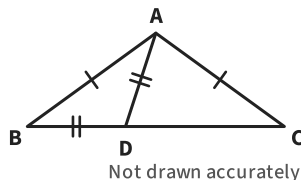
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4 Angles in isosceles triangles

$AB = AC$ and $BD = AD$.

Angle $BAC = 108^\circ$.

- a) Work out angle ABC.
- b) Work out angle DAC.



Not drawn accurately

Angles and polygons

revision mat

Higher A

5 Angles in regular polygons

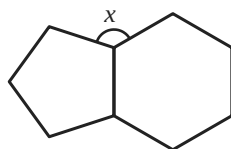
Each exterior angle of a regular polygon is 24° .

- a) How many sides does the polygon have?
- b) Work out the sum of its interior angles.

6 Angles in regular polygons

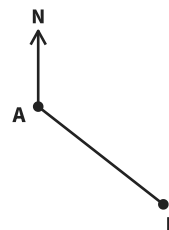
A regular pentagon and a regular hexagon share a side.

- a) Work out the interior angle of a regular pentagon.
- b) Work out the size of angle x .



7 Bearings

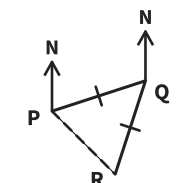
- a) Measure the bearing of B from A.
- b) Work out the bearing of A from B.



8 Bearings

A boat sails from P on a bearing of 072° to Q, then on 198° to R. $PQ = QR$.

- a) Work out angle PQR.
- b) Find the bearing of R from P.



Not drawn accurately