

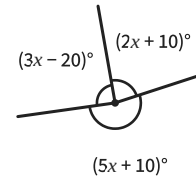
1 Map scales: measuring

- a) On a map, 4 cm stands for 1 km. Write the scale as a ratio in the form $1 : n$.
- b) A road is 6 km long. How much longer is it on a $1 : 25\,000$ map than on a $1 : 60\,000$ map?



2 Angle facts

- Three lines meet at a point.
- a) Work out the value of x .
- b) One of the angles is reflex. Work out its size.



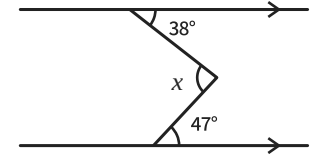
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3 Angles on parallel lines

The two horizontal lines are parallel.

- a) Work out x . Give reasons.
- b) Jo says $x = 180 - 38 - 47$. Explain her mistake.



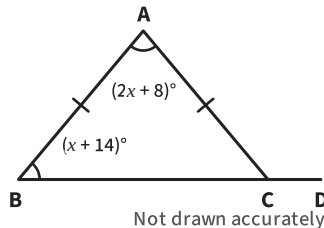
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4 Angles in isosceles triangles

$AB = AC$. BCD is a straight line.

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



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Angles and polygons

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5 Angles in regular polygons

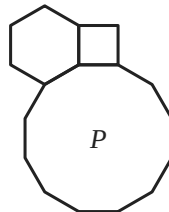
- a) Each interior angle of a regular polygon is 4 times its exterior angle. How many sides does it have?
- b) Explain why no regular polygon has an interior angle of 130° .



6 Angles in regular polygons

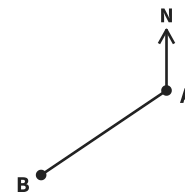
A square, a regular hexagon and a regular polygon P meet at a point with no gaps.

- a) Work out each interior angle of P.
- b) How many sides does P have?



7 Bearings

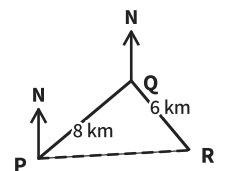
- a) Measure the bearing of B from A.
- b) Lin says the bearing of A from B is 416° . Explain her mistake and give the right bearing.



8 Bearings

A boat sails 8 km from P to Q on a bearing of 050° , then 6 km to R on a bearing of 140° .

- a) Show that angle $PQR = 90^\circ$.
- b) How far is R from P?



Not drawn accurately

