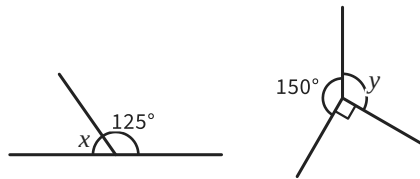


1 Angle facts

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



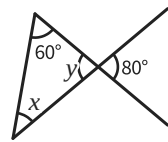
Not drawn accurately

a) $180 - 125 = 55^\circ$

b) $360 - 150 - 90 = 120^\circ$

2 Angle facts

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



Two straight lines cross.

Not drawn accurately

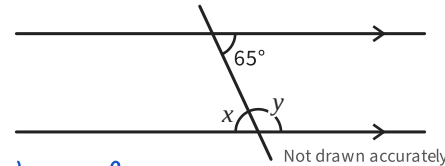
a) 80° , vertically opposite angles

b) $180 - 60 - 80 = 40^\circ$

3 Angles on parallel lines

Alternate angles are equal.

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



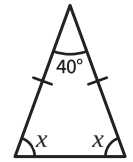
Not drawn accurately

a) $x = 65^\circ$

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

4 Angles in isosceles triangles

- a) What do the two angles marked x add up to?
b) Work out x .



Not drawn accurately

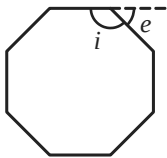
a) $180 - 40 = 140^\circ$

b) $140 \div 2 = 70^\circ$

5 Angles in regular polygons

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

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



a) $360 \div 8 = 45^\circ$

b) $180 - 45 = 135^\circ$

Angles and 2D shapes

revision mat answers

Foundation B

6 Properties of quadrilaterals

square kite parallelogram trapezium

- a) Name P and Q. Use the box.
b) How many pairs of parallel sides has P?

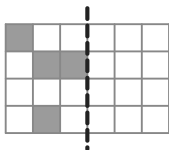


a) P parallelogram, Q kite

b) 2 pairs

7 Lines of symmetry

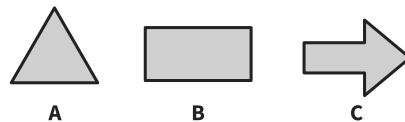
- a) Shade 4 more squares so that the dashed line is a line of symmetry.
b) How many lines of symmetry does a square have?



a)  b) 4

8 Rotational symmetry

- a) Write down the order of rotational symmetry of shape A.
b) Which shape has rotational symmetry of order 1?



a) 3

b) C

9 Congruent triangles

Triangles P and Q are congruent.

- a) Write down the length x .
b) SSS, SAS, ASA or RHS: which one?



Not drawn accurately

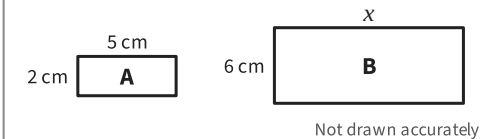
a) $x = 6 \text{ cm}$

b) SSS

10 Similar shapes

Rectangles A and B are similar.

- a) Work out the scale factor from A to B.
b) Work out x .



Not drawn accurately

a) $6 \div 2 = 3$

b) $x = 5 \times 3 = 15 \text{ cm}$