

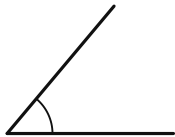
Angles and 2D Shapes

ANSWERS

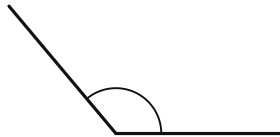
Protractor and ruler | 30 minutes | Total marks: 26

Name Class

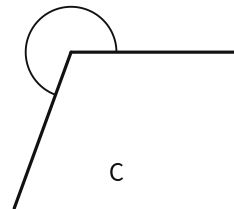
1 Here are three angles.



A



B



C

Write one word from the box next to each letter.

acute

obtuse

reflex

right angle

A acute (1)

B obtuse (1)

C reflex (1)

[3 marks]

2 (a) How many degrees are there in a quarter turn?

Answer 90 (1) ° [1 mark]

(b) Sam is facing North. He makes a half turn.

Which direction is Sam facing now?

Answer South (1) [1 mark]

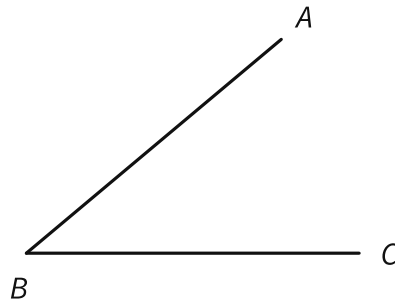
(c) Sam is facing North. He turns clockwise until he is facing East.

How many degrees does he turn through?

Answer 90 (1) ° [1 mark]

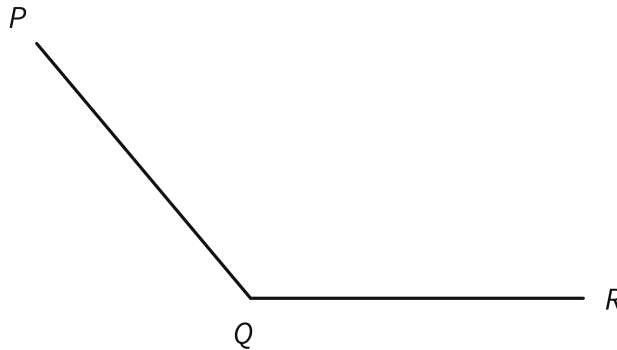
3

- (a) Measure the size of angle ABC .



Answer 40 (1) accept 38 to 42 ° [1 mark]

- (b) Measure the size of angle PQR .



Answer 130 (1) accept 128 to 132 ° [1 mark]

4

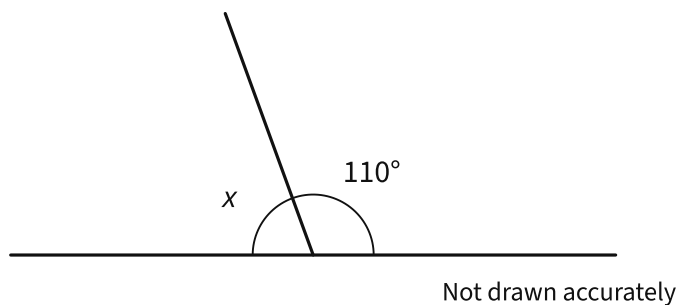
- (a) Complete the sentence. Angles on a straight line add up to 180 ° (1)

[1 mark]

- (b) The diagram shows two angles on a straight line.

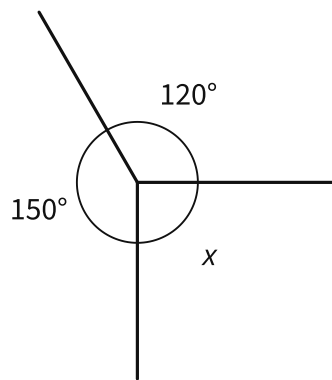
Work out the size of angle x .

$x =$ 70 (1) ° [1 mark]



5

The diagram shows three angles at a point.



Not drawn accurately

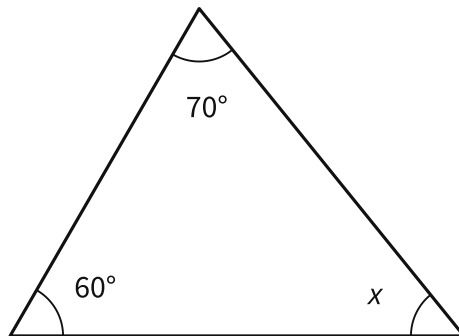
Work out the size of angle x .

$$360 - 120 - 150 \text{ (1)}$$

$$x = \underline{90 \text{ (1)}}^\circ \text{ [2 marks]}$$

6

The diagram shows a triangle.



Not drawn accurately

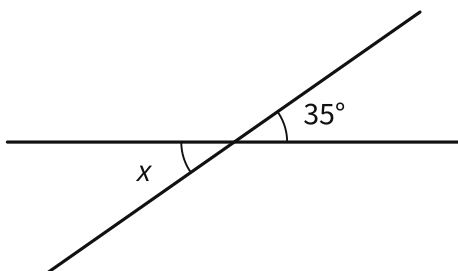
Work out the size of angle x .

$$180 - 60 - 70 \text{ (1)}$$

$$x = \underline{50 \text{ (1)}}^\circ \text{ [2 marks]}$$

7

The diagram shows two straight lines that cross.

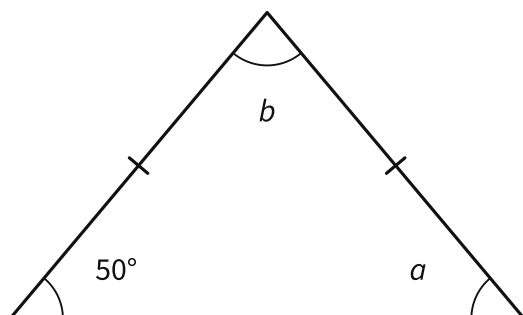


Not drawn accurately

Write down the size of angle x .

$$x = \underline{35 \text{ (1)}}^\circ \text{ [1 mark]}$$

- 8 The diagram shows an isosceles triangle.



Not drawn accurately

- (a) Write down the size of angle a .

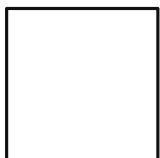
$a =$ 50 (1) $^{\circ}$ [1 mark]

- (b) Work out the size of angle b .

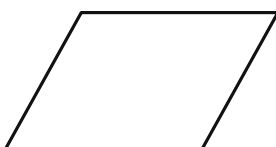
180 - 50 - 50 (1)

$b =$ 80 (1) $^{\circ}$ [2 marks]

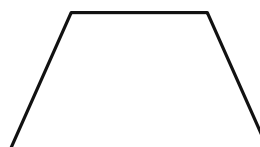
- 9 Here are three quadrilaterals.



A



B



C

Write one word from the box next to each letter.

kite

parallelogram

square

trapezium

A square (1)

B parallelogram (1)

C trapezium (1)

[3 marks]

- 10 (a) How many lines of symmetry does a rectangle have?

Answer 2 (1) [1 mark]

- (b) How many lines of symmetry does an equilateral triangle have?

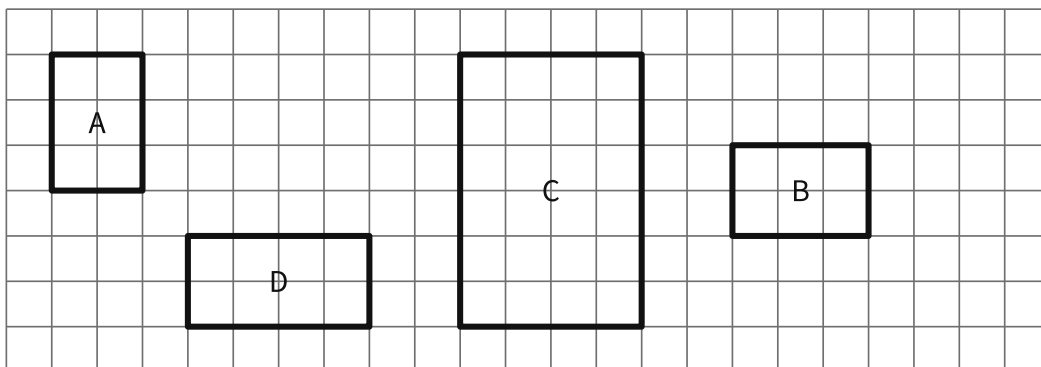
Answer 3 (1) [1 mark]

- (c) Write down the order of rotational symmetry of a square.

Answer 4 (1) [1 mark]

11

Here are four rectangles on a square grid.



(a) Which rectangle is congruent to rectangle A?

Answer B (1)

[1 mark]

(b) Which rectangle is similar to rectangle A but not congruent to it?

Answer C (1)

[1 mark]

Question	Topic	RAG
1	I can name types of angle	
2	I know the angles in turns	
3	I can measure angles	
4	I can use angles on a straight line	
5	I can use angles at a point	
6	I can find a missing angle in a triangle	
7	I can use vertically opposite angles	
8	I can find angles in an isosceles triangle	
9	I can name quadrilaterals	
10	I can describe line and rotational symmetry	
11	I can recognise congruent and similar shapes	