FOUNDATION & HIGHER

SAME AT BOTH TIERS

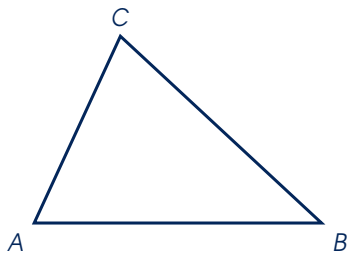
Name ..... Class .....

G1: Shape vocabulary and symmetry

Labelling conventions, properties of polygons and symmetry

20 marks · 25 minutes · Non-calculator

1) Here is triangle *ABC*.



(a) Name the angle at *B* using three letters.

.....

(1)

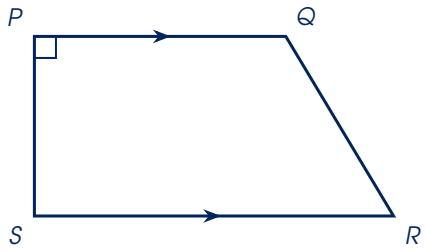
(b) Name the side opposite vertex *A*.

.....

(1)

[Question 1: 2 marks]

2) Here is quadrilateral $PQRS$.



(a) Which two sides are parallel?

.....

(1)

(b) Which two sides are perpendicular?

.....

(1)

[Question 2: 2 marks]

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3) Write down the name of a polygon with

(a) 5 sides

.....

(1)

(b) 8 sides

.....

(1)

(c) 10 sides

.....

(1)

[Question 3: 3 marks]

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4) For a regular hexagon, write down

(a) the number of lines of symmetry

.....

(1)

(b) the order of rotational symmetry

.....

(1)

[Question 4: 2 marks]

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5) For a rectangle that is not a square, write down

(a) the number of lines of symmetry

.....

(1)

(b) the order of rotational symmetry

.....

(1)

[Question 5: 2 marks]

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6) For a parallelogram that is not a rectangle or a rhombus, write down

(a) the number of lines of symmetry

.....

(1)

(b) the order of rotational symmetry

.....

(1)

[Question 6: 2 marks]

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7) For an equilateral triangle, write down

(a) the number of lines of symmetry

.....

(1)

(b) the order of rotational symmetry

.....

(1)

[Question 7: 2 marks]

8) What makes a polygon *regular*?

.....

[Question 8: 1 marks]

9) How many lines of symmetry does an isosceles trapezium have?

.....

[Question 9: 1 marks]

10) Which of these letters have rotational symmetry of order 2? H N A S E

.....

[Question 10: 2 marks]

11) How many lines of symmetry does a kite have?

.....

[Question 11: 1 marks]

End of paper – 20 marks in total

Answers and brief mark scheme

Q	Answer	Method / notes
1	(a) $\angle ABC$ (b) BC	B1 each.
2	(a) PQ and SR (b) PQ and PS	B1 each.
3	(a) pentagon (b) octagon (c) decagon	B1 each.
4	(a) 6 (b) 6	B1 each.
5	(a) 2 (b) 2	B1 each.
6	(a) 0 (b) 2	B1 each.
7	(a) 3 (b) 3	B1 each.
8	All sides equal and all angles equal	B1 (both needed).
9	1	B1.
10	H, N, S	B2 (B1 for two correct and none wrong).
11	1	B1.