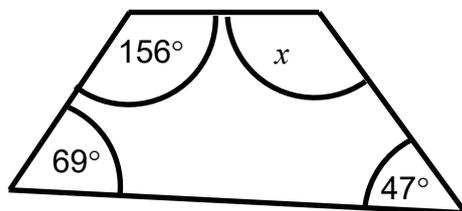


# Properties of Polygons 10 minute test 2

Answer all questions.

1 (a) Work out the value of  $x$ .

[2 marks]



Not drawn accurately

Answer \_\_\_\_\_ degrees

1 (b) Give a reason for your answer.

[1 mark]

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2 Tick the correct statements.

[2 marks]

- 2 (a) A regular polygon has every side the same length.
- 2 (b) A regular polygon has every interior angle the same size.
- 2 (c) An irregular polygon doesn't have equal sides.
- 2 (d) The interior angle of a regular polygon is found by dividing 360 degrees by the number of sides.

3 Write down the sum of the angles in a triangle.

[1 mark]

Answer \_\_\_\_\_ degrees

4 The formula:

$$\text{interior angle} = \frac{180(n-2)}{n},$$

where  $n$  is the number of sides of a regular polygon, the formula can be used to find the size of an interior angle in a regular polygon.

Use this formula to find the size of one interior angle of a polygon with eight sides.

**[2 marks]**

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Answer \_\_\_\_\_ degrees

5 (a) Draw a trapezium in the space below. Mark on any important features.

**[1 mark]**

(b) Describe the important features of a kite. You may draw a diagram to help you, but you must clearly identify and explain the features.

**[2 marks]**

**Sides of a kite**

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**Angles of a kite**

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