

GCSE Maths: Geometry words and notation (Higher): worksheet

GCSE Maths - Angles, Polygons and Symmetry - Higher - Lesson 17.1

Name: _____

Date: _____

Score: _____

13 questions. Write your answers in the spaces. Answers and step-by-step help are free at websink.site/gcse/maths/ch17-angles-polygons-symmetry/higher/geometry-words-and-notation/

Exercise 17A Words, notation and naming angles Non-calculator

1 Write the correct geometry word for each description.

- (a) Two lines that always stay the same distance apart.

Answer:

- (b) Two lines that meet at 90° .

Answer:

- (c) A corner of a polygon.

Answer:

- (d) A closed flat shape with straight sides.

Answer:

- (e) A polygon with all sides equal and all angles equal.

Answer:

- (f) The piece of a line between two points.

Answer:

2 Write down the name of each type of angle.

- (a) 35°

Answer:

- (b) 90°

Answer:

- (c) 150°

Answer:

- (d) 180°

Answer:

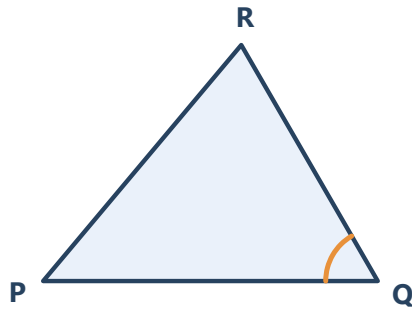
- (e) 270°

Answer:

- (f) 89°

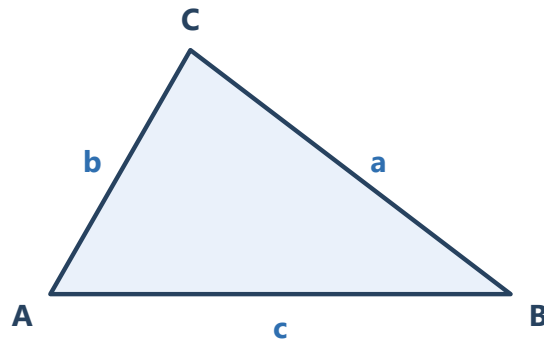
Answer:

3 Write the three-letter name of the angle marked with an arc in this triangle.



Answer:

4 Triangle ABC is shown.



(a) Which side is opposite angle A?

Answer:

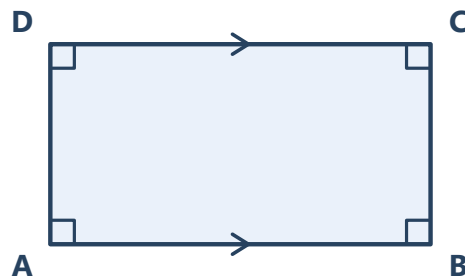
(b) Which side is opposite angle B?

Answer:

(c) Which angle is opposite side c?

Answer:

5 ABCD is a rectangle. Use the diagram to complete each statement with parallel or perpendicular.



(a) AB and DC are ____.

Answer:

(b) AB and BC are ____.

Answer:

(c) Write down the names of two vertices that are joined by an edge of the rectangle.

Answer:

6 Draw a sketch of triangle ABC where angle ABC = 90° and AB = BC. (Mark the right angle and the equal sides.) What type of triangle is it?

Answer:

7 Complete the table for each regular polygon.

(a) A pentagon: how many sides and how many vertices?

Answer:

(b) A hexagon: how many sides and how many vertices?

Answer:

(c) A octagon: how many sides and how many vertices?

Answer:

(d) A decagon: how many sides and how many vertices?

Answer:

8 A cube has 6 faces. Write down the number of its (a) vertices (b) edges.

(a) vertices

Answer:

(b) edges

Answer:

9 Say whether each statement is **true** or **false**.

(a) A square is a type of rectangle.

Answer:

(b) Parallel lines meet at a right angle.

Answer:

(c) A regular hexagon has six equal sides and six equal angles.

Answer:

10 Write the correct name for each triangle.

(a) A triangle with all three sides equal.

Answer:

(b) A triangle with exactly two equal sides.

Answer:

(c) A triangle with no equal sides.

Answer:

(d) A triangle with one angle of 90° .

Answer:

11 Two lines, PQ and RS, are both perpendicular to a third line, TU. What can you say about PQ and RS? Draw a sketch to explain.

Answer:

- 12** How many diagonals does a hexagon have? (A **diagonal** joins two vertices that are not next to each other.)

Answer:

.....

- 13** Show that a polygon with n sides has $n(n - 3) \div 2$ diagonals.

Answer:

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