

4.G.A.2 Basic Concepts About Triangles (Part 2)

4.G.A.2: Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.

Give what is asked in each item and then write your answers on the space provided.

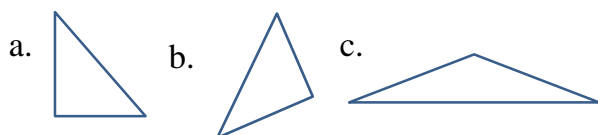
1. Draw two the same equilateral triangles sharing one side and then answer the questions below.

- What polygon is formed?
- Is the polygon regular?
- Name the polygon.

Answers:

- _____
- _____
- _____

2. Identify the triangle that is different from the other and explain why.



Answer:

3. Give a possible measurement for the sides of these triangles.

- right triangle
- equilateral triangle
- isosceles triangle
- scalene triangle

Answers:

- _____
- _____
- _____
- _____

4. How many triangular faces does the figure below have?



Answer:

5. Write True if the statement is true and write False if otherwise.

- The sum of all the angles in a triangle can be less than 180° . _____
- All three sides of an isosceles triangle have different lengths. _____
- Two sides of a scalene triangle have the same length. _____

6. Of all the polygons below, how many are triangles?



Answer:

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Answer Key

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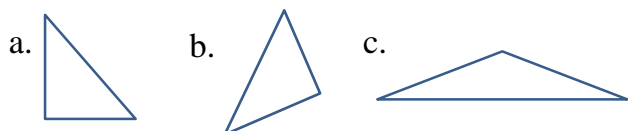
1. Draw two the same equilateral triangles sharing one side and then answer the questions below.

- What polygon is formed?
- Is the polygon regular?
- Name the polygon.

Answers:

- a quadrilateral
- Yes.
- parallelogram (specifically a rhombus)

2. Identify the triangle that is different from the other and explain why.



Answer:

Triangle c is different because it is an obtuse triangle while the other two are right triangles.

3. Give a possible measurement for the sides of these triangles.

- right triangle
- equilateral triangle
- isosceles triangle
- scalene triangle

Answers:

- 5 cm, 12 cm, 13 cm
- 3 cm, 3 cm, 3 cm
- 3 cm, 3 cm, 4 cm
- 3 cm, 4 cm, 5 cm

4. How many triangular faces does the figure below have?



Answer:

4

5. Write True if the statement is true and write False if otherwise.

- The sum of all the angles in a triangle can be less than 180° . False
- All three sides of an isosceles triangle have different lengths. False
- Two sides of a scalene triangle have the same length. False

6. Of all the polygons below, how many are triangles?



Answer:

2