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4.G.A.2 Basic Concepts About Triangles (Part 1)

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. Give the following:

a. number of equal sides in an isosceles triangle
b. number of the same angles in a scalene triangle
c. number of right angles in a right triangle
d. number of equal sides in an equilateral triangle

Answers:
a. _____   c. _____
b. _____   d. _____

2. The two sides of a triangle measure 3 cm and 4 cm respectively. What could be the possible length of the third side if the triangle happens to be a:

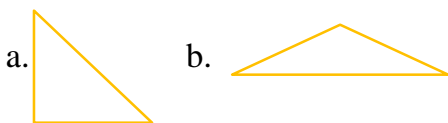a. scalene triangle?
b. isosceles triangle?

Answer:
a. _____
b. _____

3. Classify the following triangles based on the length of its sides.

a. 5 cm, 5 cm, 5 cm,
b. 5 cm, 6 cm, 6 cm
c. 5 cm, 6 cm, 7 cm

Answers:
a. _____   b. _____   c. _____

4. Which among the triangles below is an obtuse triangle?

a.   b.

Answer:

5. Determine whether these triangles are acute, right, or obtuse.

a.   b.   c.

Answers:
a. _____   c. _____
b. _____

6. Is it true that an equilateral triangle is also an isosceles triangle?

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Answer Key

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. Give the following:

a. number of equal sides in an isosceles triangle
b. number of the same angles in a scalene triangle
c. number of right angles in a right triangle
d. number of equal sides in an equilateral triangle

Answers:
a. __2__   c. __1__
b. __0__   d. __3__

2. The two sides of a triangle measure 3 cm and 4 cm respectively. What could be the possible length of the third side if the triangle happens to be a:

a. scalene triangle?
b. isosceles triangle?

Answer:
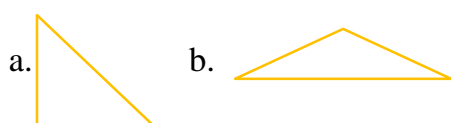a. any length less than 7 cm or greater than 1 cm but not 3 cm or 4 cm
b. 3 cm or 4 cm _____

3. Classify the following triangles based on the length of its sides.

a. 5 cm, 5 cm, 5 cm,
b. 5 cm, 6 cm, 6 cm
c. 5 cm, 6 cm, 7 cm

Answers:
a. __equilateral__   b. __isosceles__   c. __scalene__

4. Which among the triangles below is an obtuse triangle?

a.   b.

Answer:
b

5. Determine whether these triangles are acute, right, or obtuse.

a.   b.   c.

Answers:
a. __acute__   c. __obtuse__
b. __right__

6. Is it true that an equilateral triangle is also an isosceles triangle?

Yes.