

## Properties and Types of Triangles – II

1. A triangle whose two sides are equal is called a(n) \_\_\_\_\_ triangle.

Solution:

2. A triangle whose all three sides are equal and each angle is  $60^\circ$  is called a(n) \_\_\_\_\_ triangle.

Solution:

3. Two angles of a triangle measure  $45^\circ$  each. The length of the side opposite to the third angle is 8 cm.

- Find the length of the other two sides if the perimeter of the triangle is 20 cm.
- What type of triangle is it?

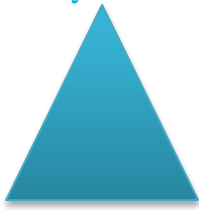
Solution:

a.

b.

4. Classify each triangle as acute, right or obtuse.

a.



b.



c.



Solution:

a.

b.

c.

5. True or False

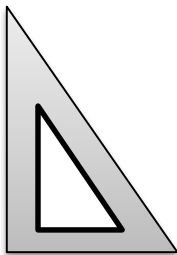
- A right triangle cannot be isosceles.
- An obtuse triangle cannot be equilateral.
- All equilateral triangles are isosceles.

Solution: a.

b.

c.

6. The two triangles below are similar. The angles of the inner triangle are  $90^\circ$ ,  $60^\circ$  and  $30^\circ$ . Find all three angles of the outer triangle.



Solution:

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### Answer Key

1. Isosceles
2. Equilateral
3.
  - a. 6 cm
  - b. Isosceles right triangle
4.
  - a. Acute
  - b. Right
  - c. Obtuse
5.
  - a. False
  - b. True
  - c. True
6.  $90^\circ, 60^\circ, 30^\circ$