# Triangles Classification and Construction

Grade Level: 5th–6th Grade ¦ Geometry

## Exercise 1 : Classify the triangles by their sides

Look at the side lengths and name each triangle.

a) 5 cm, 5 cm, 5 cm → ……..

b) 4 cm, 4 cm, 6 cm → …….

c) 3 cm, 5 cm, 7 cm → ……...

(Choices: equilateral, isosceles, scalene)

## Exercise 2 : Construct the following triangles Using a

**ruler, compass, and protractor, draw each triangle below.**

1 Equilateral triangle with sides of 6 cm.

2 Isosceles triangle with a 6 cm base and two equal sides of 4 cm.

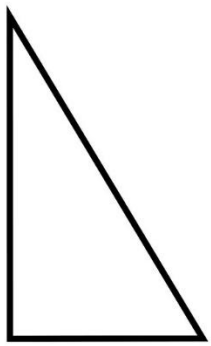
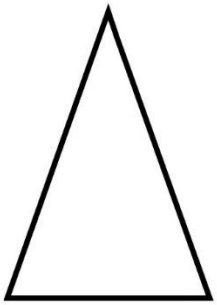
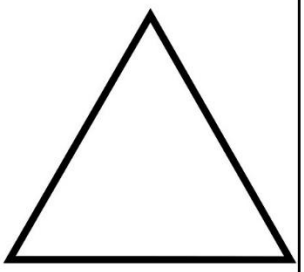
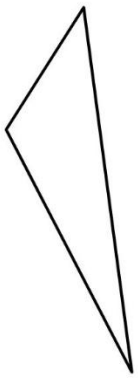
3 Scalene triangle with sides 3 cm, 4 cm, and 5 cm.

4 Right triangle with one right angle at A, where AB = 6 cm and AC = 4 cm.

5 Right isosceles triangle with sides of 4 cm.

## Exercise 3 : **Identify the triangle type**

Look at the figures below and write the correct name for each one: Equilateral – Isosceles – Scalene – Right – Right Isosceles.

| | | | |
|---|---|---|---|
|  |  |  |  |
| triangle : ..... | triangle : ..... | triangle : ..... | triangle : ..... |

## Exercise 4 : **Verify the properties**

Draw any triangle and measure each side with your ruler. Then answer:

- Does it have equal sides?

- Does it have a right angle?

## Exercise 5 : **Complete the sentences**

Fill in each blank with the correct term: (equilateral – isosceles – right – scalene – right isosceles)

a) A ……. triangle has three equal sides.

b) A ……...triangle has two equal sides.

c) A ……triangle has one right angle.

d) A ……... triangle has no equal sides.

e) A ……. triangle has one right angle and two equal sides.