

# WORKSHEET

Time Duration : 10 minutes

Group :

Members : 1.

2.

3.

4.

5.

6.

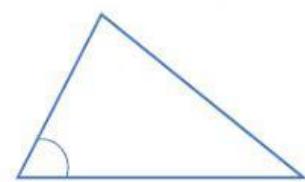
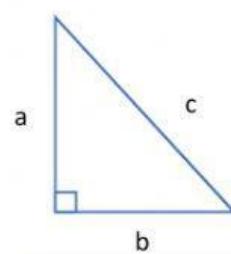
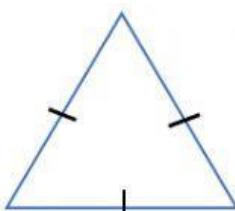
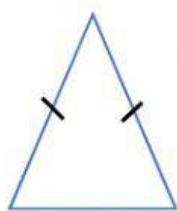
## LEARNING OBJECTIVES

After completing this worksheet, students can:

1. Identify two triangles congruent or not
2. Test and prove two triangles are congruent or not

## REMEMBERING ABOUT THE TRIANGLE

What is this triangle?

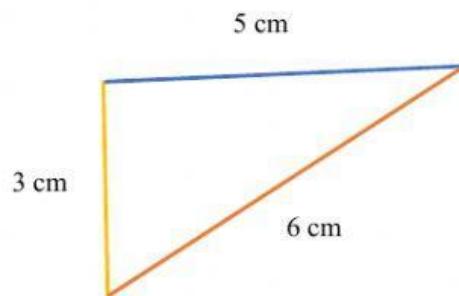
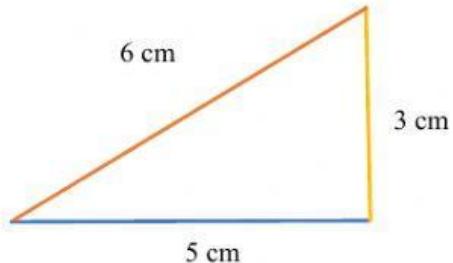
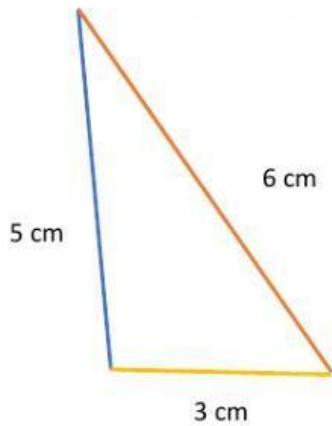


How many angles are there in the triangle?  Degree

The number of sides of the triangle is

## TRIANGLE CONGRUENCE

1. There are line segments, each of which has a length of 3 cm, 5 cm, and 6 cm. The line segments we connect will become the triangles below.

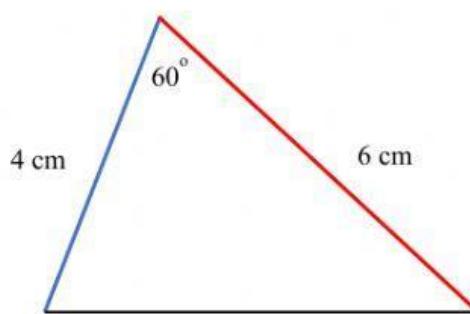
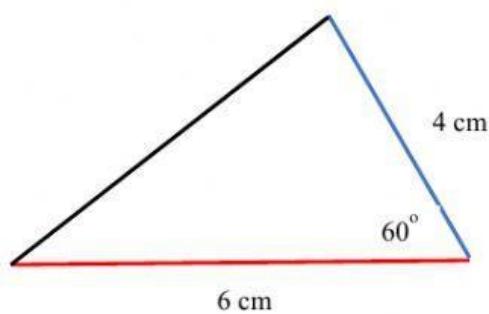
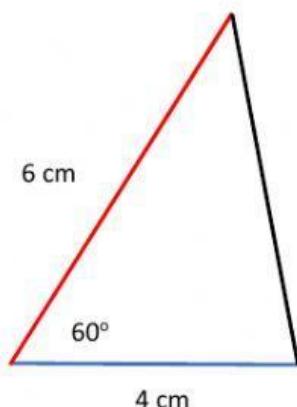


From the three images above,

Do the three pictures form the exact same triangle?

Are the three triangles congruent?

2. Triangle with a length of 4 cm and 6 cm, between the two lines it forms an angle of  $60^\circ$ . Then the triangle that is formed is



From the three images above,

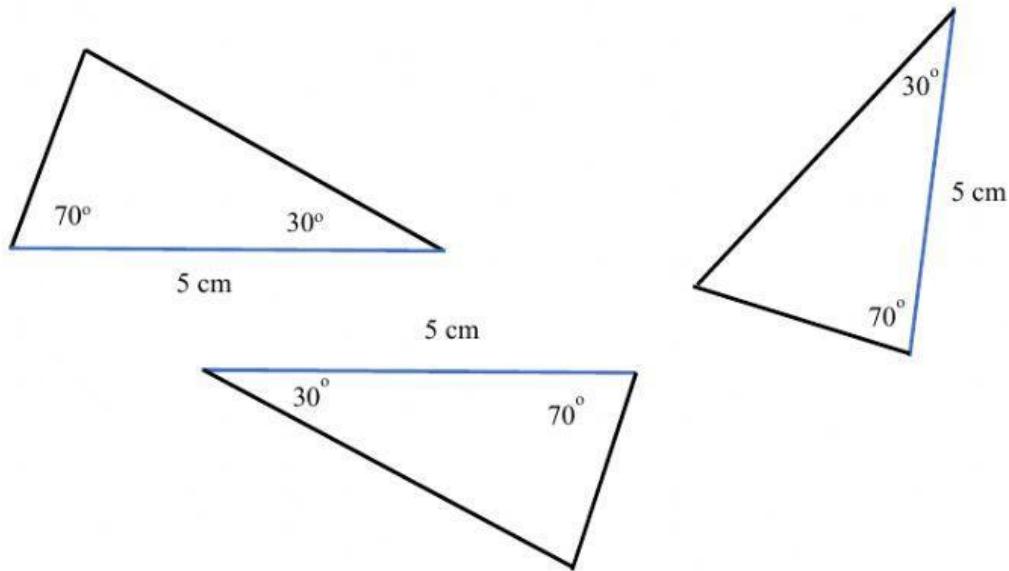
Do the three pictures form the exact same triangle?

a. Yes      b. No

Are the three triangles congruent?

a. Yes      b. No

3. Triangle is formed from a line segment with a length of 5 cm and the line is flanked by angles of  $30^\circ$  and  $70^\circ$ , then the triangle formed is



From the three images above,

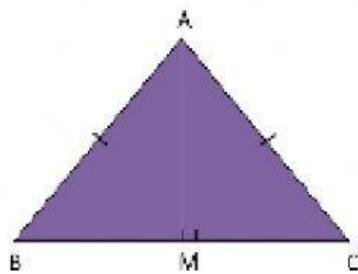
Do the three pictures form the exact same triangle?

a. Yes      b. No

Are the three triangles congruent?

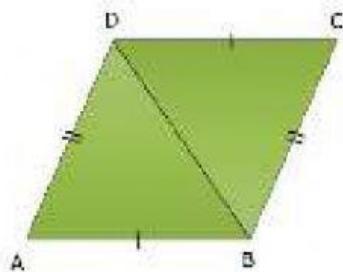
a. Yes      b. No

4. Connect between the two triangles which are congruent with the conditional criteria!



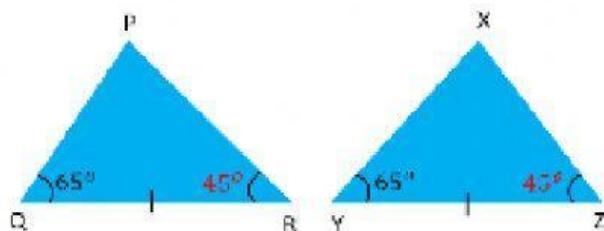
Side-Side-Side

$$\triangle AMB \cong \triangle AMC$$



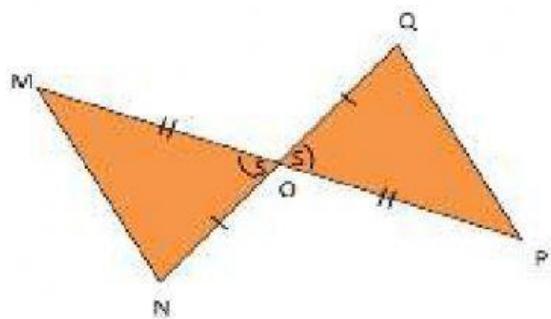
Side-Angle-Side

$$\triangle ABD \cong \triangle CDB$$



Right Angle – Hypotenuse – Side

$$\triangle PQR \cong \triangle XZY$$



Angle-Side-Angle

$$\triangle MON \cong \triangle POQ$$

5. Show that the two triangles below are congruent! and explain your reasons?

