



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 20.06.20

Duration: 40 min

Worksheet 37

Full Marks: 15

## TRIANGLES CONSTRUCTION

Choose the Correct options:

1. Does a triangle with these side lengths exist?

20, 10, 9

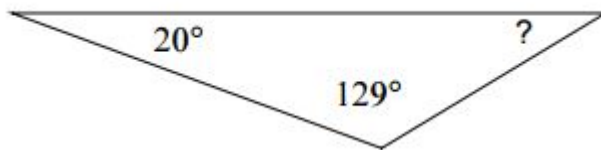
- (a) Yes,
- (b) only one
- (c) No
- (d) Yes, many

2. Does a triangle with these side lengths exist?

15, 12, 9

- (a) Yes,
- (b) only one
- (c) No
- (d) Yes, many

3. Find the measure of each angle indicated.



- (a)  $33^\circ$
- (b)  $136^\circ$
- (c)  $36^\circ$
- (d)  $31^\circ$

4. If 2 of the angles of a triangle are 30 and 70 degrees, the third angle measures...

- (a) 80
- (b) 100
- (c) 60
- (d) 90

5. The Triangle Inequality Theorem states the sum of the lengths of any two sides of a triangle is \_\_\_\_\_ the length of the third side.

- (a) greater than
- (b) less than
- (c) equal to
- (d) Can't say

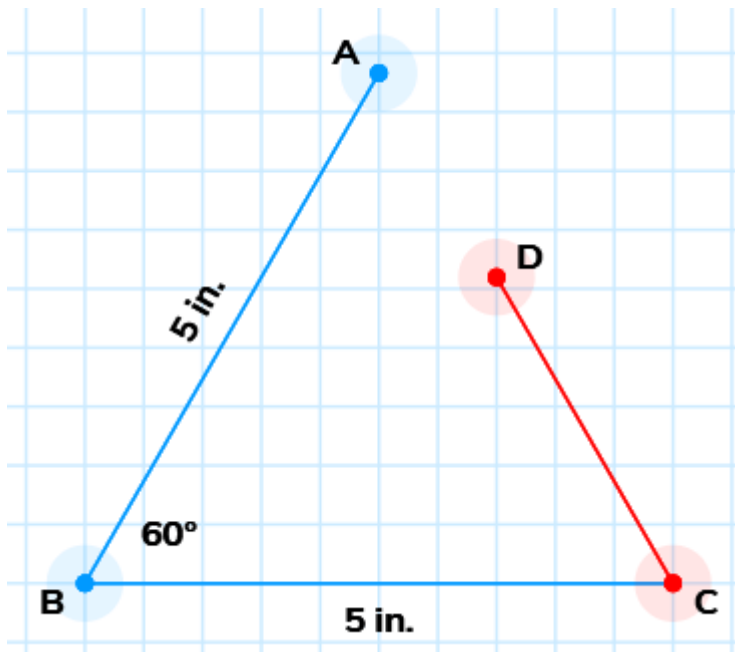
6. If you are given two sides of a triangle what will be true?

- (a) You can make infinitely many unique triangles.
- (b) You can't make any triangles with this information.
- (c) You can only make one unique triangle.
- (d) You can only make 2 unique triangles.

7. If you are given three angles of a triangle what will be true?

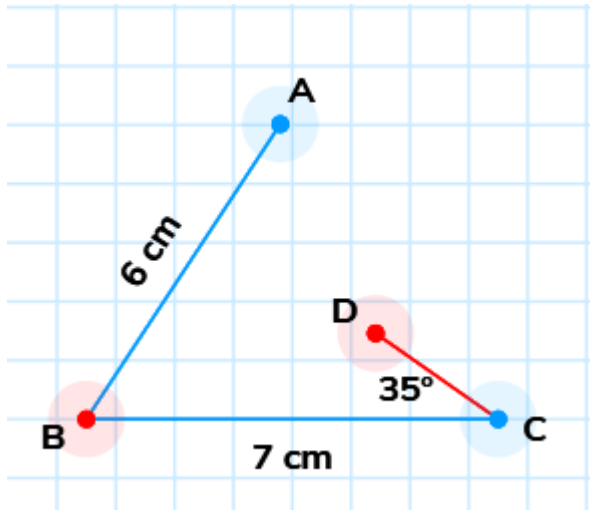
- (a) You can make infinitely many unique triangles.
- (b) You can't make any triangles with this information.
- (c) You can only make one unique triangle.
- (d) You can only make 2 unique triangles.

8. How many different triangles can you make if you are given these measurements?



- (a) 1
- (b) 2
- (c) 3
- (d) Infinitely many

9. How many different triangles can you make if you are given these measurements?



- (a) 0
- (b) 1
- (c) 2
- (d) 3

10. An equilateral triangle has

- (a) all sides in different lengths
- (b) all sides in equal lengths.
- (c) two sides in equal lengths.
- (d) Two medians of equal length

11. Which set of side lengths will make a triangle?

- (a) 6, 8, 13
- (b) 7, 9, 18
- (c) 7, 7, 14
- (d) 2, 6, 9

12. Classify the following Triangle



- (a) Right Isosceles Triangle
- (b) Acute Isosceles Triangle
- (c) Right Scalene Triangle

(d) Acute Scalene Triangle

13. Classify the following Triangle

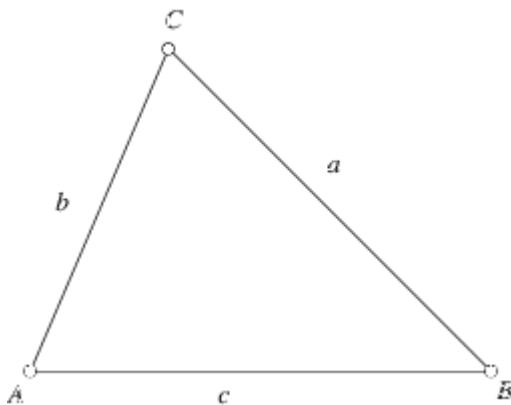


- (a) Right Isosceles Triangle
- (b) Obtuse Isosceles Triangle
- (c) Right Scalene Triangle
- (d) Acute Scalene Triangle

14. What type of triangle has only one right angle and two congruent sides?

- (a) Right Isosceles Triangle
- (b) Obtuse Isosceles Triangle
- (c) Right Scalene Triangle
- (d) Acute Scalene Triangle

15. Classify the following Triangle



- (a) Acute Scalene Triangle
- (b) Right Isosceles Triangle
- (c) Acute Equilateral Triangle
- (d) Obtuse Isosceles Triangle