



# CLASSIFYING TRIANGLES

*By Angles, Given Sides*

## TASK CARD ACTIVITY

*Created by:* ALL THINGS ALGEBRA

# CLASSIFYING TRIANGLES

## Task Cards!

**Objective:** First, students must determine if the three given sides could represent a triangle using the Triangle Inequality Theorem. Then, if they do, students will classify the triangle further as acute, right, or obtuse using the converse of the Pythagorean Theorem.

**Directions:**

- 1) Print, cut, and laminate the 20 task cards. Also, copy enough recording worksheets for each student. These are the ways I have run this activity:
  - Place two cards at each station and have students move in small groups from station to station after approximately 2-3 minutes. (This way you only have to copy one set of cards)
  - Students work in pairs and are given a card set. They work together to answer each card. You will need to print, cut, and laminate many sets. I typically prefer this because it leads to more one-on-one discussion.
- 2) They may check their answers by scanning the QR code on the card. A mobile device is required with a QR scanner app. An internet connection is not required to scan the code. It's very simple to set up, feel free to email me if you have any questions! A non-QR code version is also included.

Includes student worksheet, 20 task cards (both with or without QR codes), and answer key.

1 Classify as acute, right, obtuse, or not a triangle:  
9 in, 40 in, 44 in

12 Classify as acute, right, obtuse, or not a triangle:  
21 yd, 24 yd, 45 yd

20 Classify as acute, right, obtuse, or not a triangle:  
20 cm, 21 cm, 24 cm

**CLASSIFYING TRIANGLES Task Cards!**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Per: \_\_\_\_\_  
Directions: Given the side lengths, classify each triangle as acute, right, obtuse, or not a triangle.

1	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$	2	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$
3	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$	4	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$
5	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$	6	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$
7	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$	8	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$
9	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$	10	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$
11	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$	12	<input type="checkbox"/> Acute <input type="checkbox"/> Right <input type="checkbox"/> Obtuse <input type="checkbox"/> Not a $\Delta$

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