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## Prd 3rd 4

## **STUDENT MATERIALS**

**ROUND 1-PLAY IT** 

Read each description. If it is "fake" and you cannot make the triangle, X that box. If it makes a real triangle, use your tools to construct it. Construct a second <u>unique</u> triangle if possible.

1. Triangle with two or more obtuse angles.

FAKE! Check this box if this describes an impossible triangle. Write how you know in the space below.

Make it: If possible, construct a triangle.

this is take, this is because it is impossion to make a tringgle without 90 degree engles.

If possible, construct another unique triangle.

2. Triangle with a side length of 5 centimeter.	s that connects angles of 60° and 80°.			
FAKE! Check this box if this describes an impossible triangle. Write how you know in the space below.				
Make it: If possible, construct a triangle.	If possible, construct another unique triangle.			
3. A triangle with an angle of 50° and side lengths of 4 cm and 4 cm.  FAKE! Check this box if this describes an impossible triangle. Write how you know in the space below.				
Make it: If possible, construct a triangle.	If possible, construct another unique triangle.			

Part of a description for a triangle is given and the type of triangle that it should describe. Complete the missing fact to complete each game show question.

4. This triangle is FAKE. Complete the fact to make a triangle that <u>cannot</u> be constructed.  FACT 1: The two longest sides of the triangle are 5 inches and 8 inches.
FACT 2: The shortest side is inches. (Must be a number between 0 and 5.)
5. This triangle is REAL. Complete the fact to make a triangle that <u>could</u> be constructed.
FACT 1: The two shortest sides of the triangle are 5 inches and 8 inches.
FACT 2: The longest side is inches. (Must be a number greater than 8.)
6. This triangle is FAKE. Complete the fact to make a triangle that <u>cannot</u> be constructed.

7. This triangle is REAL and would make one unique triangle. Create three of your own

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FACT 1: the	anyles	of the	trinagle	5,10	and C	10 degree
			trinade 2			1

FACT 3: the angles of the tringle 9, 12 and 90 degrees

The angles of the triangle are \_\_\_

## **ROUND 3 - REFLECTION**

Write your responses to each of the following reflection questions:

**1.** What strategies did you use to decide whether the triangle could be made or whether it was a fake?

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2. Which types of clues are easiest to use when constructing triangles (given all 3 sides, all 3 angles or a combination of sides and angles)? Why do you think this is?

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