Name Sai Tejasovir Pro 3

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.

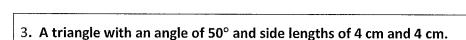
1. Triangle with two or more obtuse angles. FAKE! Check this box if this describes an impossible triangle. Write how you know in the space below.	
Make it: If possible, construct a triangle.	If possible, construct another unique triangle.

2. Triangle with a side length of 5 centimeters 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.

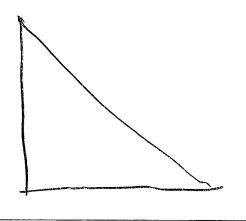
Make it: If possible, construct a triangle.

If possible, construct another unique triangle.



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 cannot 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 cannot be constructed.

The angles of the triangle are ______ and _____ degrees.

7. This triangle is REAL and would make one <u>unique</u> triangle. Create three of your own facts:

FACT 1: The SUM of a takende Most Be 18

FACT 2: The higesh length of atolongle is call

FACT 3: The ordner & wo sides are called the Lengs.

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?

I used no strategles to decido whether the triangle rold be made or wherther It was a take.

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?

I show all three sides
would be easiet for

.