THE CHALLENGE: SEE HOW MANY OF THESE PROBLEMS YOU CAN SOLVE IN 10 MINUTES!!!

Directions: Write the angles and sides in order from least to greatest.

1) In ATUV

UV = 17 yd

TV = 14 yd

TU = 9 yd

2) In $\triangle ABC$

 $m\angle A = 40^{\circ}$

 $m\angle B = 80^{\circ}$

 $m\angle C = 60^{\circ}$

TU, TV, WV

mLA, mLC, mLB

Directions: Classify the triangle by its angles and its sides.

3) m $\angle A = 4x$

 $m \angle B = 5x$

 $m \angle C = 9x$

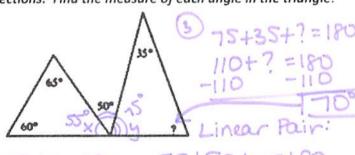
* Draw a Picture

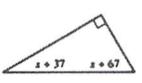
5x+4x+9x=180

Plug in to all 2's. man = 4(10) = 40° man = 5(10) = 50°

mLC=9(10)= 90°

Directions: Find the measure of each angle in the triangle.





Directions: Determine if the side lengths could be used to make a triangle.

6) 5, 9, 15

7) 3, 3, 6

NO 14 X IS

* the sum of the smaller sides has to be greater than the longest side

Directions: Find the range of possible measures for the third side of the triangle.

5+9 = 14 - Largest

9) 12,6

9-5=4-smallest

sides to get largest possibility & tract sides to get smallest possibility.