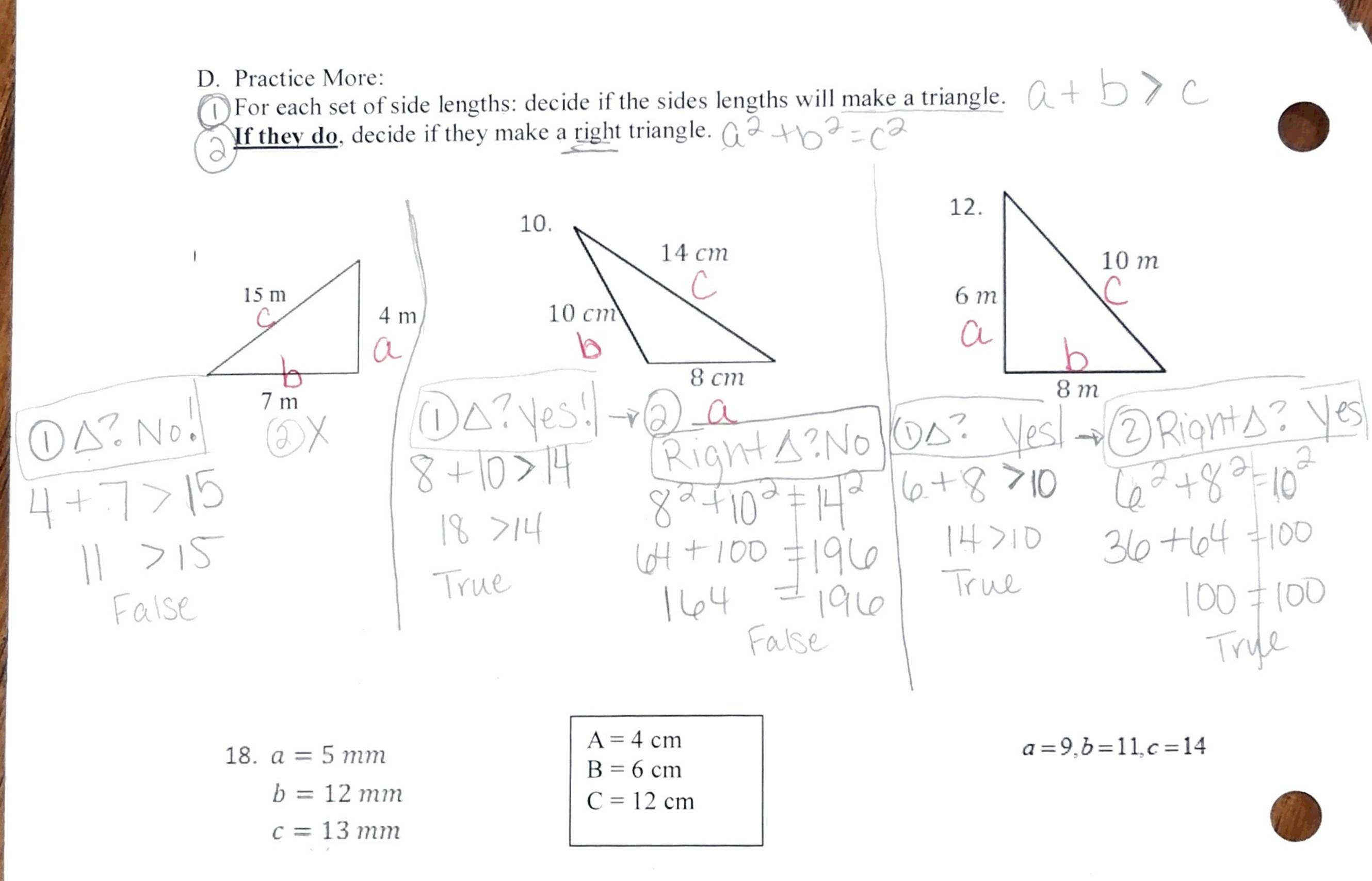
Name:		Date:	MC M	Hour: TM
Unit 4A: Day 8: The Converse of the Pythagorean Theorem  Focus Question: If I know the three sides of a triangle, can I decide if it is a right triangle?				
				2,12,2
A. Remember the Pythagorean Theorem states if a triangle is a right triangle then $($ Remember that the shortest side is $a$ , the medium side is $b$ , and the longest side is $c$ .)				
For each set of numbers below, tell which side would be $a$ , which would be $b$ , and which would be $c$ .				
	3 Side Lengths	a	b	c
	6, 12, 8		8	12
	5, 13, 12	5	12	13
	12, 8, 9	8		1-2
	B. Now that you know which side to use for $a$ , $b$ , and $c$ you can substitute them into $a^2 + b^2 = c^2$ If it is true, then the triangle $\frac{1}{2}$ a right triangle.			
If it is false, then the triangle 15 10th a right triangle.				
This is the converse of the Pythagorean Theorem.				
		ight triangles?  2 + 12 + 13  + 14 + 11  1 6   + 11  True		8 49+64+81 113+81 False
	Vesi	tis aright	1	Noitisnot arignts.
C. Try one yourself.  Is a triangle with side lengths 6, 12, and 10 a right triangle?  A C V				
		62+10	7-1-10	nota rights.
		364101		
		136	# 144	



John asked his dad to get him boards with the lengths of 5 feet, 7 feet, and 10 feet to make a right triangular ramp to practice skate board tricks. Explain his error(s) in thinking.