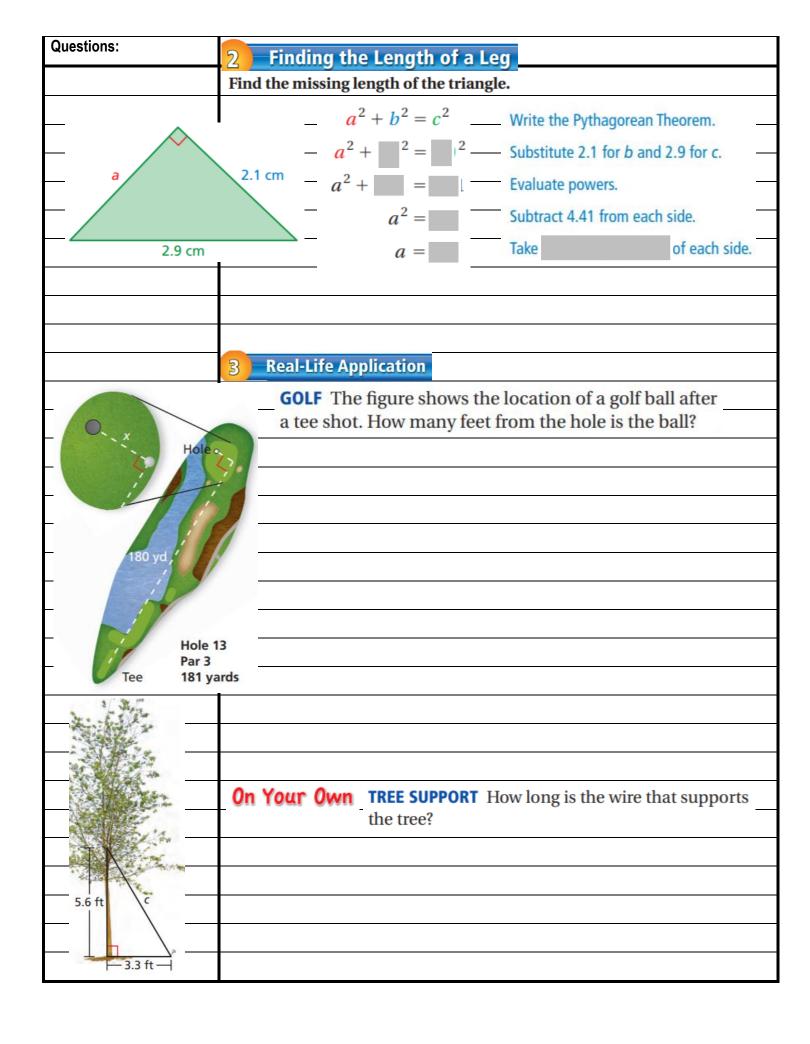
Cornell Notes	Topic: M	17 L7 The Pythagorean Theorem	Name:
Y	8.G.B. Understand and apply the Pythagorean Theorem. 8.G.B.C: Understand the Pythagorean Theorem and its converse. 8.G.B.T: Apply the Pythagorean Theorem to determine unknown side lengths		Class/Period:
AVID	in right triang in two and the 8.G.B.8: Apply the Pyth	lies in real-world context and mathematical problems ree dimensions. lagorean Theorem to find the distance between two pordinate system.	Date:
Learning Target: I can		Anuli de system.	
Questions:		Notes:	
		GO Key Ideas	
		Sides of a Right Triangle	
		The sides of a right triangle have special names.	
In a right triangle, the legs are the shorter sides and the hypotenuse is always the longest side.		The legs are the two sides that form the right angle. The Pythagorean Theorem Words In any right triangle, the sum of the squares of the lengths of the legs is equal to the square of the length of the hypotenuse. Algebra $a^2 + b^2 = c^2$	
		1 Finding the Length of a Hypotenuse	
5 m		Find the length of the hypotenuse of the triangle.	
		$a^2 + b^2 = c^2$	Write the Pythagorean Theorem.
		$+ = c^2$	Substitute 5 for a and 12 for b.
		$+ = c^2$	Evaluate powers.
_	12 111		Add.
			Take positive square root of each side.
			Property and the second
		=c	Simplify.
		The length of the hypotenuse is meters.	



M7 L7 Classwork

Partner A Name:

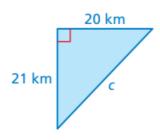
Partner B Name: _____

Partner A do odd number questions

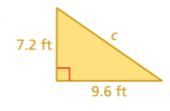
Partner B do even number questions

Find the missing length of the triangle.

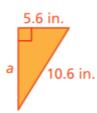
3.



4.

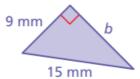


5.

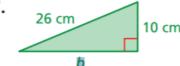


Cohort:

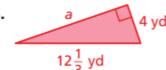
6.



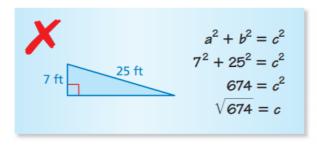
7.



8.

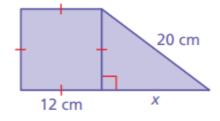


9. ERROR ANALYSIS Describe and correct the error in finding the missing length of the triangle.

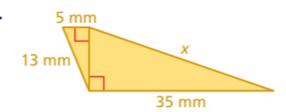


Find the missing length of the figure.

11.



12.

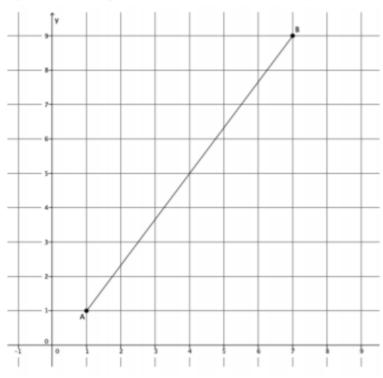


M7 L7 Classwork

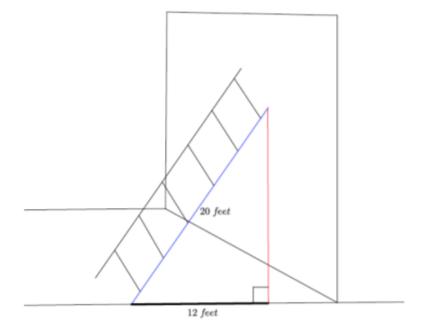
Partner A Name: _____Cohort: ____

Partner A do odd number questions Partner B do even number questions

1. Find the length of the segment AB shown below, if possible.



2. A 20-foot ladder is placed 12 feet from the wall, as shown. How high up the wall will the ladder reach?

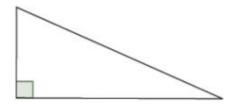


M7 L7 The Pythagorean Theorem Exit Ticket

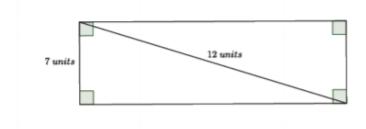
Name:_____ Cohort:____

Exit Ticket

1. Label the sides of the right triangle with leg, leg, and hypotenuse.



1. Find the length of the missing side of the rectangle shown below, if possible.



2. Find the length of all three sides of the right triangle shown below, if possible.

