Name _____ Date _____ Pd ___

9.1 Pythagorean Theorem CYU

☑ *Use when you get it right all by yourself*

S *Use when you did it all by yourself, but made a silly mistake*

H *Use when you could do it alone with a little help from teacher or peer*

G *Use when you completed the problem in a group*

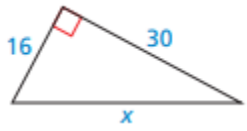
X *Use when a question was attempted but wrong (get help)*

N *Use when a question was not even attempted*

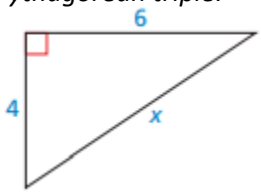
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Solving right triangles	1 – 3	5, 15	4, 16
Pythagorean Triples	1 - 3	5, 15	4, 16
Pythagorean Theorem	6	7, 15	16
Error Analysis	6	7	
Modeling with Mathematics	8		
Pythagorean Inequality Theorem	9, 12	10, 13	11, 14
Triangle Inequality Theorem (Is it a triangle?)	12	13	14
Area of Isosceles Triangles		15	16

Find the value of x. Then tell whether the side lengths for a Pythagorean triple.

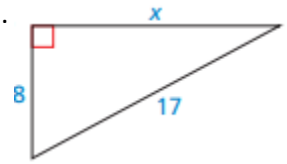
1.



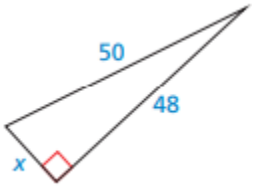
2.



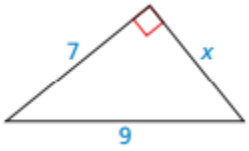
3.



4.

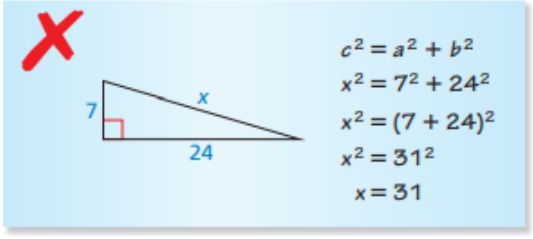


5.

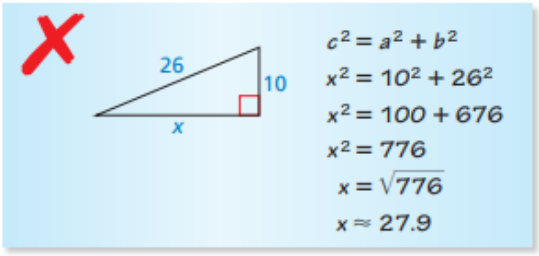


ERROR ANALYSIS *Describe and correct the error in using the Pythagorean Theorem.*

6.



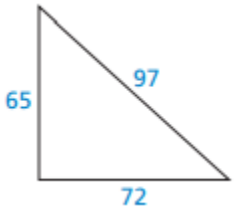
7.



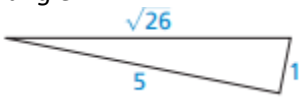
8. **MODELING WITH MATHEMATICS** The fire escape forms a right triangle, as shown. Use the Pythagorean Theorem to approximate the distance between the two platforms.

Determine if the triangle is a right triangle.

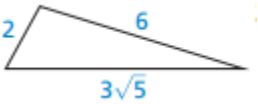
9.



10.



11.



Verify that the segment lengths for a triangle. Is the triangle acute, right, or obtuse?

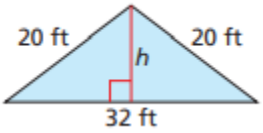
12. 5.3, 6.7, & 7.8

13. $10, 15, \& \ 5\sqrt{13}$

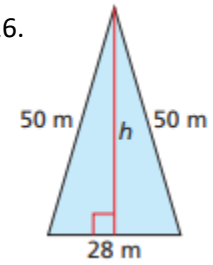
14. 4.1, 8.2, & 12.2

Find the area of the isosceles triangle.

15.



16.



CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.