## Quizızz

Homework 5.1 due Monday 1/11*3 Problems
Require Work*

NAME : $\qquad$
CLASS : $\qquad$
DATE : $\qquad$
15 Questions

1. When should we use the Pythagorean Theorem?a) When a right triangle has an angle measure of 30 degreesc) When a right triangle has two sides provided and we need the third side
2. 



I have been given the short leg in this 30-60-90 triangle. How do I find the length of the hypotenuse?
a) Multiply 4 by 2c) Multiply 4 by $\sqrt{ } 2$
3.

a) It is the same length as the given leg.
c) Multiply that leg's length by 2 .b) Multiply that leg's length by $\sqrt{ } 2$.d) Divide that leg's length by $\sqrt{ } 2$.
In this 45-45-90 triangle, I have been given the length of a leg. How do I find the length of the hypotenuse?
4.
a) Multiply 6 by 2c) Divide 6 by 2
5.
a) Multiply 4 by 2c) Multiply 4 by $\sqrt{ } 2$
6.


I have been given the hypotenuse in this 30-60-90 triangle. How do I find the short leg?b) Multiply 6 by $\sqrt{ } 3$d) Divide 6 by $\sqrt{ } 3$

I have been given the short leg in this 30-60-90 triangle. How do I find the longer leg?

In this 45-45-90 triangle, I have been given a leg, so to find the other leg I...
a) Multiply that leg by 2
c) Multiply that leg by $\sqrt{ } 2$
b) Use the same length for the second leg
d) Divide that leg by $\sqrt{ } 2$a) 11c) 5.7
8.
a) 8c) $2 \sqrt{ } 3$

Find the value of $y$.
9.

a) 9c) $9 \sqrt{ } 2$

Find the value of $y$.
b) 4d) $8 \sqrt{ } 3$
b) $18 \sqrt{ } 2$
$\square$
d) $(9 \sqrt{ } 2) / 2$
10.


If a ladder is 15 feet in length and reaches to the top of a wall that is 11 feet in height, how far from the base of the wall is the ladder positioned? WORK REQUIREDb) 104 feetd) 4 feet

Find the value of $x$.
b) 3
d) 6

Find the length of the missing side.WORK REQUIRED
a) 25 cm
C) 52 cm
b) 42 cmd) 48 cm
a) $12 \sqrt{ } 2$c) 24
14.
a) 14c) $7 \sqrt{ } 2$
15.
a) $b=3.5 \sqrt{ } 3 a=7 \sqrt{ } 3$c) $b=7 a=14$
b) $2 \sqrt{ } 7$
d) 7

What are a and b in this 30-60-90 triangle?b) $b=7 a=7 \sqrt{ } 2$d) $b=7 \sqrt{ } 3 a=14 \sqrt{ } 3$

