

NAME \_\_\_\_\_

DATE \_\_\_\_\_ BLOCK \_\_\_\_\_

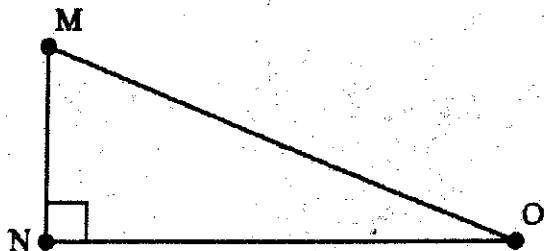
SOL 8.10

# Pythagorean Theorem Quiz

## Multiple Choice

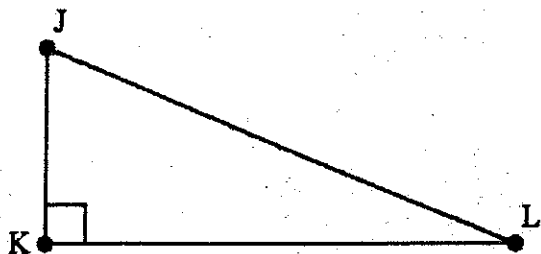
Identify the choice that best completes the statement or answers the question.

1. Which line segment represents the hypotenuse?



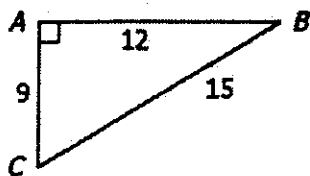
- a.  $\overline{MN}$       b.  $\overline{MO}$       c.  $\overline{NO}$

2. Which two line segments represent the legs?



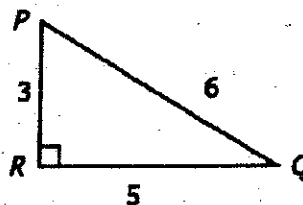
- a.  $\overline{JL}$  and  $\overline{JK}$       b.  $\overline{KL}$  and  $\overline{JL}$       c.  $\overline{JK}$  and  $\overline{KL}$

3. Using the Pythagorean Theorem, determine whether the following measurements form a right triangle.



- a. No, it's not a right triangle.      b. Yes, it's a right triangle.

4. Using the Pythagorean Theorem, determine whether the following measurements form a right triangle.



- a. No, it's not a right triangle.      b. Yes, it's a right triangle.

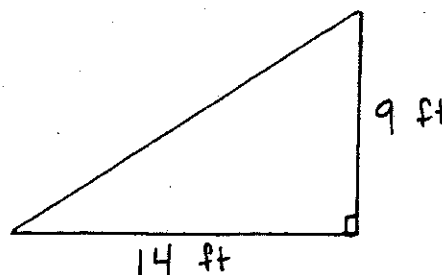
5.

Which of the following measurements form a right triangle?

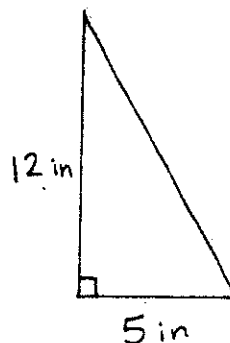
- a. 4cm, 6cm, 10cm      c. 5cm, 12cm, 169cm  
b. 7cm, 9cm, 65cm      d. 10cm, 24cm, 26cm

Solve to find the length of the hypotenuse. (Round to the nearest tenth, if necessary.)

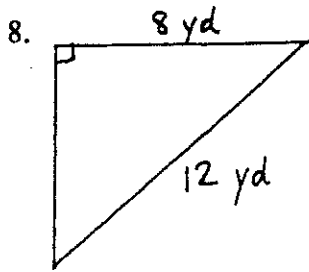
6.



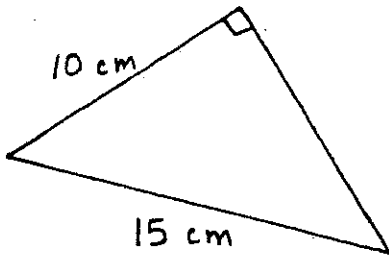
7.



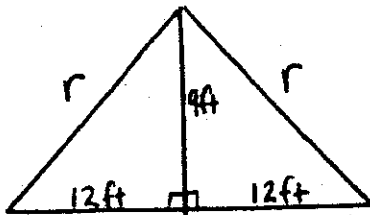
Solve to find the length of the missing leg.  
(Round to the nearest tenth, if necessary.)



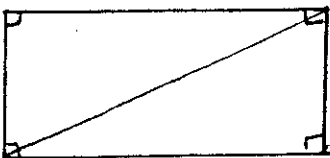
9.



10. Below is a diagram of two rafters on a house.  
How long is each rafter?

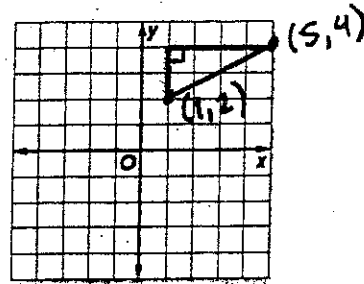


11. A rectangular room has a length of 15 feet and a width of 20 feet. Find the length of the diagonal of the room. (Round to the nearest tenth.)

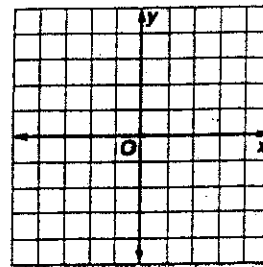


Find the distance between each pair of points.

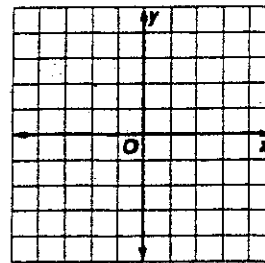
12.



13.  $(-2, -3), (5, 4)$



14.  $(-3, 0), (4, 1)$



15. List all of the perfect squares from 0-100.

16. Between what two whole consecutive numbers does the  $\sqrt{38}$  lie?