

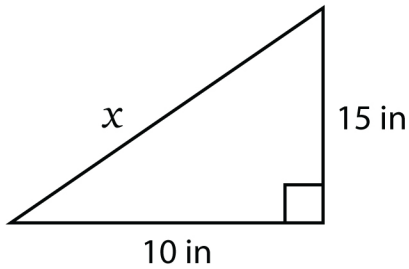
Name: \_\_\_\_\_

Score: \_\_\_\_\_ Date: \_\_\_\_\_

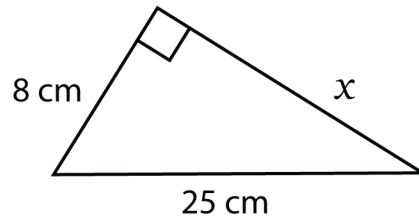
# The Pythagorean Theorem

Find the value of  $x$  in the given right triangles. Correct your answer to one decimal place.

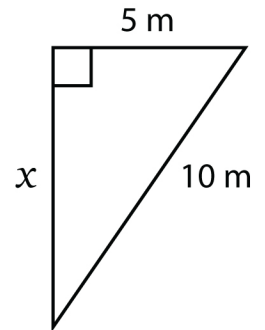
1)



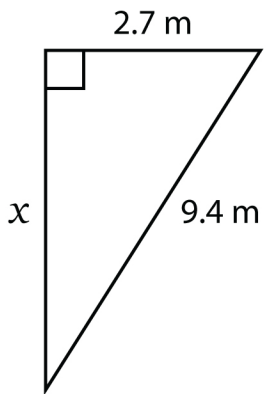
2)



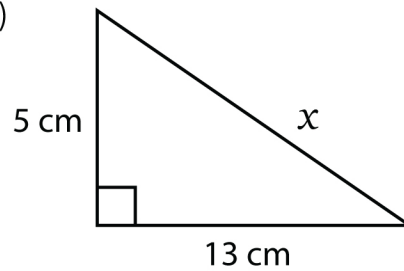
3)



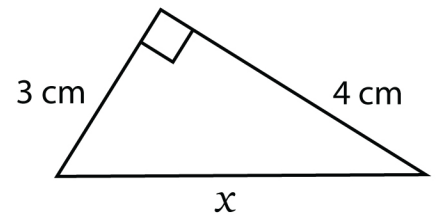
4)



5)



6)



Find the length of the missing side. Assume the 3 sides will form a right triangle.

7)  $a = 6, \quad b = ?, \quad c = 16$

8)  $a = 4, \quad b = 2, \quad c = ?$

$b =$  \_\_\_\_\_

$c =$  \_\_\_\_\_

9)  $a = 5, \quad b = ?, \quad c = 13$

10)  $a = 2.1, \quad b = 7.2, \quad c = ?$

$b =$  \_\_\_\_\_

$c =$  \_\_\_\_\_

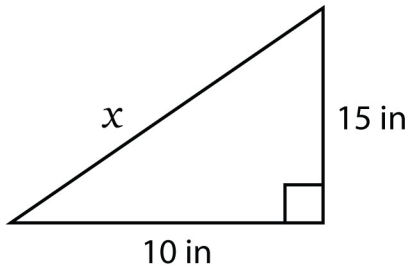
Name: \_\_\_\_\_

Score: \_\_\_\_\_ Date: \_\_\_\_\_

# The Pythagorean Theorem

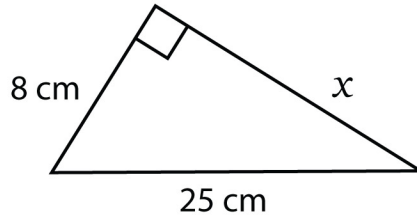
## Answers

1)



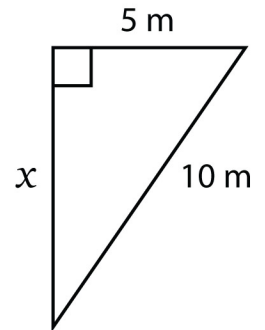
$x = 18 \text{ in}$

2)



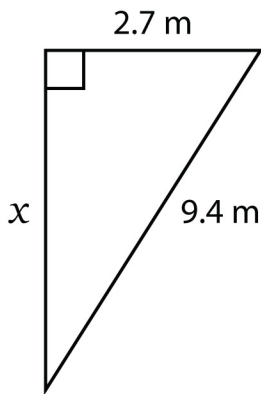
$x = 23.7 \text{ cm}$

3)



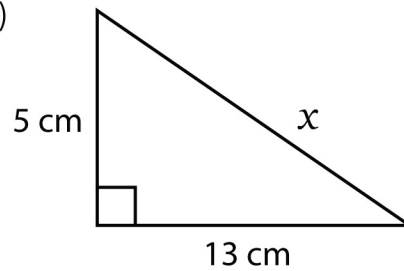
$x = 8.7 \text{ m}$

4)



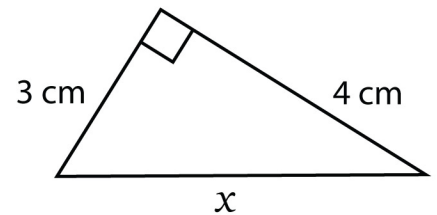
$x = 9 \text{ m}$

5)



$x = 13.9 \text{ cm}$

6)



$x = 5 \text{ cm}$

7)  $a = 6, \quad b = ?, \quad c = 16$

$b = \underline{14.8}$

8)  $a = 4, \quad b = 2, \quad c = ?$

$c = \underline{4.5}$

9)  $a = 5, \quad b = ?, \quad c = 13$

$b = \underline{12}$

10)  $a = 2.1, \quad b = 7.2, \quad c = ?$

$c = \underline{7.5}$