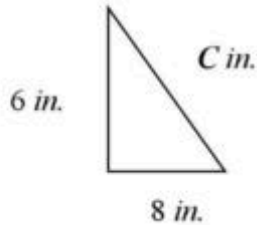NAME: _____ DATE:_____ PER#_____

PYTHAGOREAN THEOREM WORKSHEET
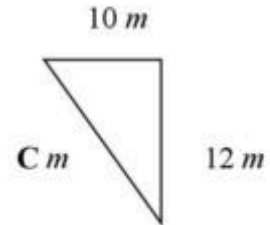
Calculate the missing length. *Round your answers to the nearest thousandth if necessary.*
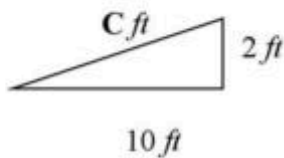
1.

C in.

6 in.
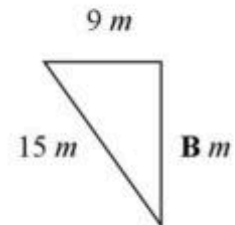
8 in.

ANSWER:_____

2.

10 m

C m

12 m

ANSWER:_____
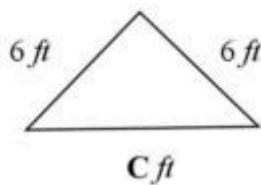
3.

C ft

2 ft

10 ft

ANSWER:_____

4.

9 m

15 m

B m

ANSWER:_____

5.

6 ft

6 ft

C ft

ANSWER:_____

6. The length of one leg of a right triangle is 8 inches. The other leg is 14 inches. How long is the hypotenuse?

ANSWER:_____

7. The length of the hypotenuse of a right triangle is 16 meters. The length of one of the legs is 12 meters. How long is the other leg?

ANSWER:_____

8. Given three lines with the following lengths, can they form a right triangle? 9 ft, 12 ft, 18 ft

(Hint: the equation $a^2 + b^2 = c^2$ is only true for right triangles)

ANSWER:_____