

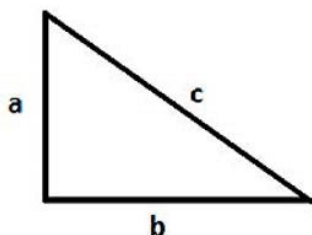
Name:

Period:



Unit 12 Practice Test

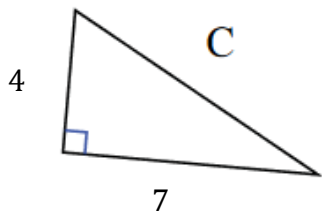
Calculators OK



$$a^2 + b^2 = c^2$$

Question 01

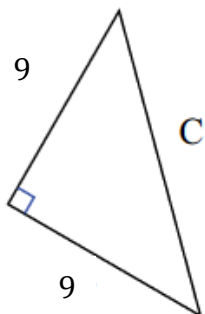
What is the length of "C"?
Round to the nearest tenth.



Answer: _____

Question 02

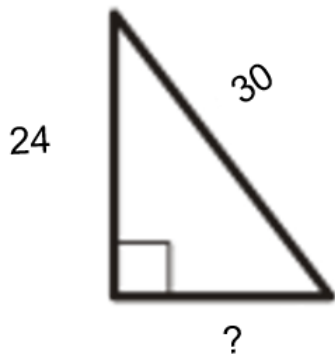
What is the length of "C"?
Round to the nearest tenth.



Answer: _____

Question 03

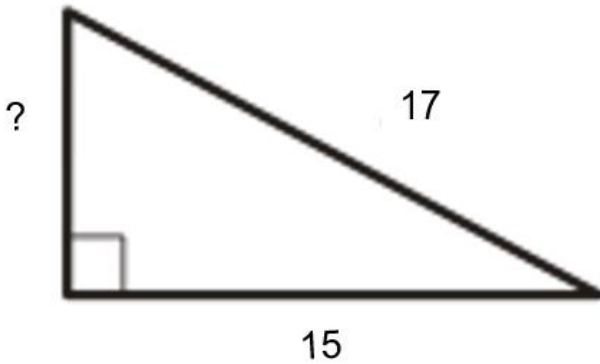
Enter the length of the missing leg.



Answer: _____

Question 04

Enter the length of the missing leg.



Answer: _____

Question 05

What is the area of the triangle below?



Answer: _____ square inches

Question 06

What is the distance between the two coordinates below? Round your answer to the nearest tenth of a unit.

$$(-5, 12) \text{ and } (3, 17)$$

Answer: _____ units

Question 07

What is the distance between the two coordinates below? Round your answer to the nearest tenth of a unit.

$$(3, -2) \text{ and } (-7, -9)$$

Answer: _____ units

Question 08

The legs of a right triangle are $2\sqrt{2}$ and $4\sqrt{3}$.

Part A. What is the hypotenuse?

a) $2\sqrt{14}$

b) $3\sqrt{14}$

c) $4\sqrt{14}$

d) $5\sqrt{14}$

Part B. What is the greatest integer less than the length of the hypotenuse?

Answer: _____

Question 09

Can you make a right triangle with lengths 1.6 units, 3.4 units and 3 units?

- a) Yes. The triangle would be a right triangle.
- b) No. The triangle would be an acute triangle.
- c) No. The triangle would be an obtuse triangle.
- d) No. You cannot make a triangle with those lengths.

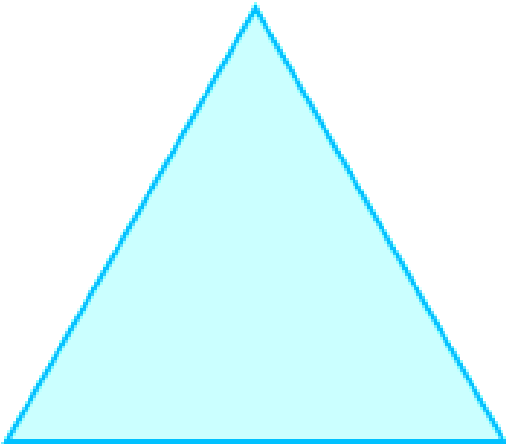
Question 10

Can you make a right triangle with lengths 35 units, 45 units and 55 units?

- a) Yes. The triangle would be a right triangle.
- b) No. The triangle would be an acute triangle.
- c) No. The triangle would be an obtuse triangle.
- d) No. You cannot make a triangle with those lengths.

BONUS 01

The triangle below is an equilateral triangle with a perimeter of 45 inches. What is the area of the triangle? Round your answer to the nearest tenth.



Answer: _____ square inches