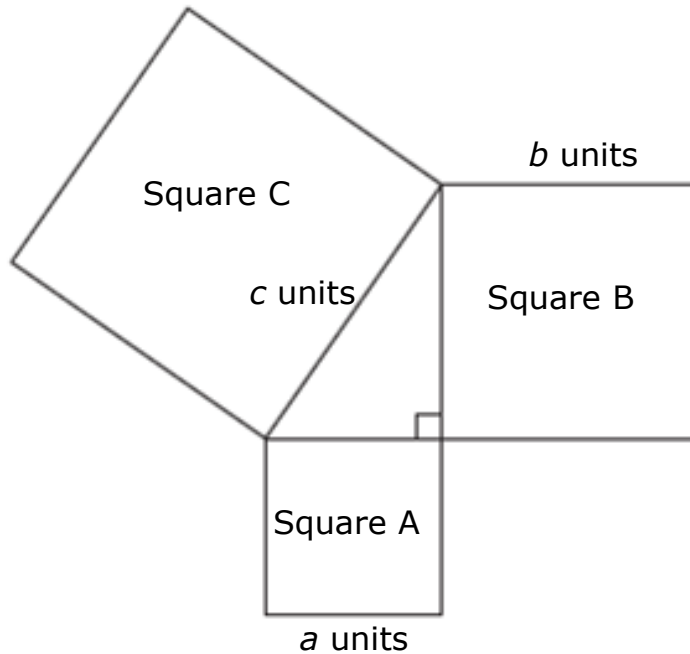


Pythagorean Theorem
Explain Independent Practice Answer Key

Use the following figure for questions 1 – 3.



Use the figure above to complete the table.

	Area of Square A	Side Length of Square A	Area of Square B	Side Length of Square B	Area of Square C	Side Length of Square C
1	400 units ²	20 units	441 units ²	21 units		
2	144 units	12 units			1369 units ²	37 units
3			16 units ²	4 units	121 units ²	11 units



Name _____ Date _____

Use the following information for questions 4-6.

For each of the following, determine if the lengths given would form a right triangle. Justify your answer using the Pythagorean Theorem.

4 15 units, 36 units, 39 units

5 6 units, 8 units, 9 units

6 6.4 units, 12 units, 12.2 units

Use the following information for questions 7 and 8.

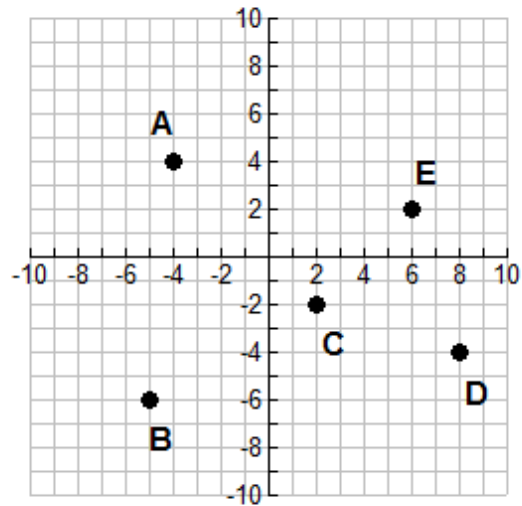
If a and b represent the length of the legs of a right triangle, and c represents the length of the hypotenuse, determine the missing value in each problem.

7 If $a = 1.5$ cm and $b = 2$ cm, what is the length of c ?

8 If $a = 6$ ft. and $c = 7.5$ ft., what is the length of b ?



Use the graph for problems 9 – 12.



9 Find the distance between point A and point B to the nearest tenth.

10 Find the distance between point C and point D to the nearest tenth.

11 Find the distance between point C and point E to the nearest tenth.

12 Find the distance between point A and point D to the nearest tenth.

