

Name: _____



PRACTICE



TUTORIAL

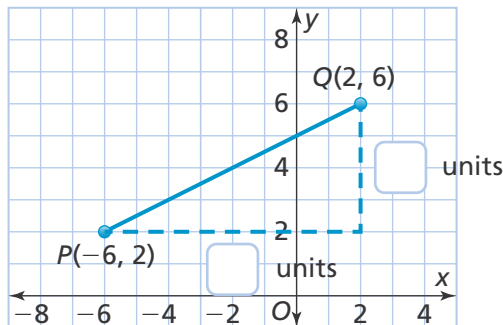
7-4 Additional Practice

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- 1. Leveled Practice** Use the Pythagorean Theorem to find the distance between points P and Q . Round to the nearest tenth.

Label the length, in units, of each leg of the right triangle.

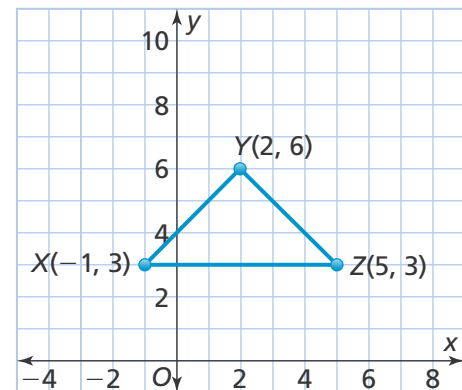


$$c^2 = \boxed{}^2 + \boxed{}^2$$

$$c = \sqrt{\boxed{}}$$

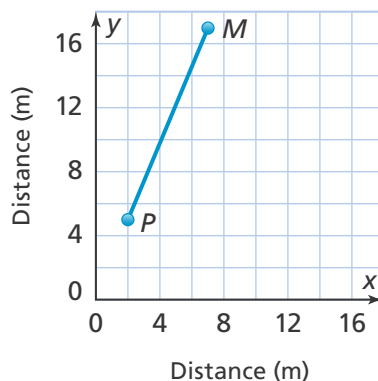
The distance between point P and point Q is about $\boxed{}$ units.

- 2.** Find the perimeter of triangle XYZ . Round to the nearest hundredth.



- 3.** Determine whether the triangle is equilateral, isosceles, or scalene.

- 4.** A shopper drives from the mall at point M to the post office located at point P . What distance does the shopper drive?



- 5.** Is point $K(10, 16)$ or point $L(12, 12)$ closer to point $J(6, 4)$? Explain.



6. Use Structure Point B has coordinates $(-4, -2)$. The x -coordinate of point A is 5. The distance between point A and point B is 15 units. © MP.7

- a. What are the possible coordinates of point A ?
- b. Find the possible coordinates of point A if point B were moved to $(-7, -2)$.

7. The coordinates of triangle EFG are $E(28, 24)$, $F(24, 27)$, and $G(0, 24)$.

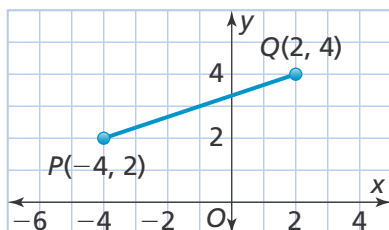
- a. What is the perimeter of triangle EFG ? Round to the nearest tenth.
- b. Is the triangle equilateral, isosceles, or scalene?

8. Higher Order Thinking There are points on a grid at $(0, 0)$ and $(3, 0)$.

- a. What is a possible coordinate of the third vertex if the triangle has a perimeter of 11 units? Explain.
- b. Is there another point that could be the third vertex? Explain.

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9. Find the distance between P and Q . Round to the nearest tenth.



10. Find the distance between $S(2.3, 4.8)$ and $T(6.4, 7.9)$. Round to the nearest tenth.

