

Name: _____



PRACTICE



TUTORIAL

2-5 Additional Practice

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Multimedia



Levelled Practice In 1–8, find the distance between each pair of points.

1. $(5, -6)$ and $(2, -6)$

$$\begin{aligned} & \left| \quad \right| - \left| \quad \right| \\ &= \quad - \quad \\ &= \quad \text{units} \end{aligned}$$

2. $(-6, -4.7)$ and $(-6, 4.1)$

$$\begin{aligned} & \left| \quad \right| + \left| \quad \right| \\ &= \quad + \quad \\ &= \quad \text{units} \end{aligned}$$

3. $(-2\frac{1}{2}, 1\frac{3}{4})$ and $(-1\frac{1}{4}, 1\frac{3}{4})$

$$\begin{aligned} & \left| \quad \right| - \left| \quad \right| \\ &= \quad - \quad \\ &= \quad \text{units} \end{aligned}$$

4. $(-7, -4)$ and $(-7, 9)$

$$\begin{aligned} & \left| \quad \right| + \left| \quad \right| \\ &= \quad + \quad \\ &= \quad \text{units} \end{aligned}$$

5. $(2.4, 1.8)$ and $(-0.6, 1.8)$

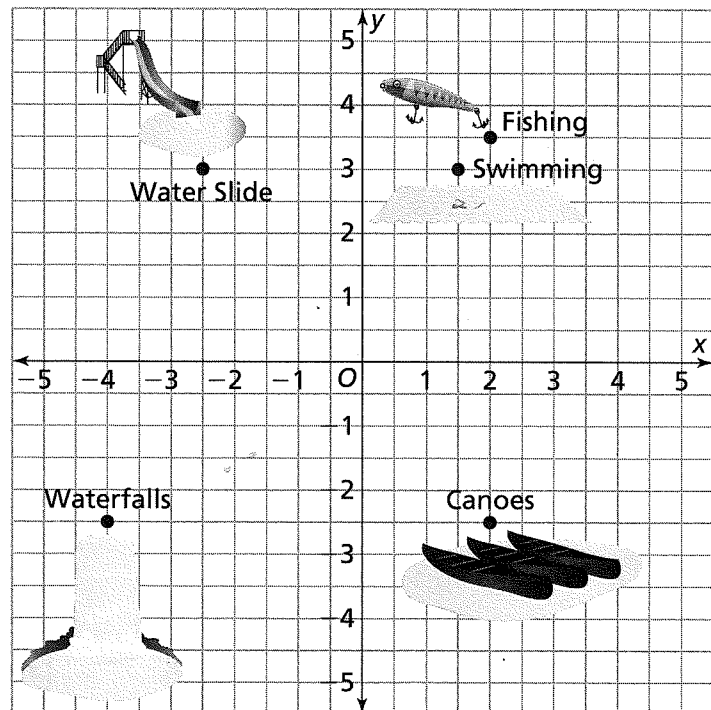
6. $(7\frac{1}{2}, -6)$ and $(7\frac{1}{2}, -2\frac{1}{2})$

7. $(0, -6)$ and $(-10, -6)$

8. $(-3, 8.5)$ and $(-3, 7.7)$

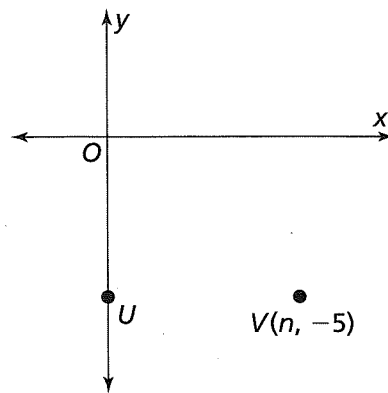
In 9–12, use the map at the right.

9. Find the distance from the fishing area to the canoes.
10. What is the distance from the swimming area to the water slide?
11. Find the total distance from the waterfalls to the canoes and then to the fishing area.
12. **Higher Order Thinking** What are the coordinates of the reflection of the water slide across both axes?



In 13–15, use the coordinate plane at the right.

The graph shows the locations of point U and point V . Point W is graphed at $(n, 1)$. The distance from point V to point W is equal to the distance from point V to point U .



13. What is the distance from point V to point W ?

14. What is the value of n ?

15. What are the coordinates of point U , point V , and point W ?

16. **Reasoning** On a map, Jorge is standing at $(11, -11)$. His friend Leslie is standing at $(1, -11)$. If Jorge walks 10 units to the right, will he be standing with Leslie? Explain.

17. On a map, a museum is located at $(15, -2)$. A library is located at $(15, -17)$. If each unit on the map is a city block, how many city blocks is the museum from the library?

18. Write four examples of ordered pairs, each located in a different quadrant of the coordinate plane.

19. Airport A is located on a coordinate plane at $(-18, 14)$. Airport B is located at $(8, 14)$. How far apart are the airports?

Assessment Practice

20. Find the two ordered pairs that are $3\frac{1}{2}$ units apart. Then write those ordered pairs in the second row of the chart.

Distance = $3\frac{1}{2}$ units
$(4\frac{1}{2}, -1)$ $(-1\frac{1}{4}, 2\frac{1}{2})$ $(2\frac{1}{4}, 2\frac{1}{2})$ $(5\frac{1}{2}, 1\frac{1}{2})$ $(5\frac{1}{2}, -2\frac{1}{2})$

