Name _____ Date _____ Period _____

LESSON 7-6 · WARM-UP

Warm-Up Practice

Determine Distance on the Coordinate Plane

THE MOVE

what this page practices

Find the distance between two points that share a coordinate

If two points have the same y, subtract the x-values and take the absolute value: $|-5 - 3| = 8$. If they have the same x, subtract the y-values instead. When the points sit on opposite sides of an axis you can also add each one's distance from that axis.

WORKED MODEL

we do this one together

Step 1	How far is it from (−5, 2) to (3, 2)?
Step 2	The y-values match, so subtract the x-values: $-5 - 3 =$ _____
Step 3	Distance is positive, so take the absolute value: $\lvert -8 \rvert =$ _____ units
Step 4	Check by adding: 5 units to the y-axis + 3 units past it = _____ units

YOUR TURN

8 items · about 10 minutes

1. How far is it from (−6, 1) to (2, 1)? _____
ANSWER _____

2. How far is it from (4, −3) to (4, 5)? _____
ANSWER _____

3. $|-7 - 2| =$ _____
ANSWER _____

4. How far is it from (−9, 0) to (−2, 0)? _____
ANSWER _____

5. How far is it from (5, −4) to (5, −1)? _____
ANSWER _____

6. How far is it from (−2.5, 6) to (1.5, 6)? _____
ANSWER _____

7. Point A is (−3, 7). Point B has the same y-value and sits 10 units to the right of A. Write B. _____
ANSWER _____

8. On a city map, 1 unit is 1 block. A bench is at (−4, 2) and a fountain is at (6, 2). How many blocks apart are they? _____
ANSWER _____