



Distance on the coordinate plane

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Show your subtraction; final answers in the boxes. One skill: **distance using coordinates and absolute value**.

WORKED EXAMPLE

Subtract the coordinates that DIFFER, then take the absolute value: from $(-5, 2)$ to $(6, 2)$, distance = $|6 - (-5)| = |11| = 11$ units. The bars mean the order of subtraction never matters.

1. Find the distance between $(2, 1)$ and $(2, 7)$.

FLUENCY

Show your thinking

Answer

2. Find the distance between $(3, 4)$ and $(10, 4)$.

FLUENCY

Show your thinking

Answer

3. Find the distance between $(-5, 2)$ and $(6, 2)$.

FLUENCY

Show your thinking

Answer

4. Find the distance between $(-9, 3)$ and $(-3, 3)$.

APPLICATION

Show your thinking

Answer

5. Find the distance between $(4, -7)$ and $(4, 5)$.

APPLICATION

Show your thinking

Answer

6. Find the distance between $(-1, -8)$ and $(-1, -2)$.

APPLICATION

Show your thinking

Answer

7. Find the distance from $(-4, 6)$ to $(6, 6)$, then from $(6, 6)$ to $(-4, 6)$. Explain why both give the same answer.

REASONING

Show your thinking

Answer

8. A rectangle has corners $(-2, -5)$, $(6, -5)$, $(6, 1)$ and $(-2, 1)$. Find each side length and the perimeter.

REASONING

Show your thinking

Answer