



Side lengths from coordinates

GRADE 6 MATH

Name _____

Date _____

Work in order. Write which coordinates you subtracted and why; final answers in the boxes with units.
One skill: **side lengths from coordinates**.

WORKED EXAMPLE

Same $y \rightarrow$ horizontal side $\rightarrow$ subtract the x -values. Same $x \rightarrow$ vertical side $\rightarrow$ subtract the y -values. Length is never negative. When the side crosses zero, the two distances ADD:
from -5 to 4 is $5 + 4 = 9$ units.

1. Find the length from $(1, 4)$ to $(8, 4)$.

FLUENCY

Show your thinking

Answer

2. Find the length from $(3, 2)$ to $(3, 10)$.

FLUENCY

Show your thinking

Answer

3. Find the length from $(-6, 5)$ to $(-1, 5)$.

FLUENCY

Show your thinking

Answer

4. Find the length from $(-2, -7)$ to $(-2, -1)$.

APPLICATION

Show your thinking

Answer

5. Find the length from $(-5, 3)$ to $(4, 3)$.

APPLICATION

Show your thinking

Answer

6. Find the length from $(2, -6)$ to $(2, 5)$.

APPLICATION

Show your thinking

Answer

7. A rectangle has vertices $(-3, -2)$, $(6, -2)$, $(6, 3)$ and $(-3, 3)$. Find its perimeter, showing each side length.

REASONING

Show your thinking

Answer

8. Using the same rectangle as item 7, find its area. Explain why the units differ from your answer in item 7.

REASONING

Show your thinking

Answer

9. One endpoint of a horizontal side is $(3, 5)$ and the side is 8 units long. Give every possible location for the other endpoint, and explain why there is more than one.

REASONING

Show your thinking

Answer