



Side lengths from coordinates

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Write which coordinates you subtracted; answers in the boxes with units. One skill: **side lengths from coordinates**.

WORKED EXAMPLE

Same $y \rightarrow$ horizontal $\rightarrow$ subtract the x -values. Same $x \rightarrow$ vertical $\rightarrow$ subtract the y -values. Never negative. Both points on the same side of zero: subtract the distances. Side crosses zero: add them.

1. Find the length from $(2, 6)$ to $(11, 6)$.

FLUENCY

Show your thinking

Answer

2. Find the length from $(7, 1)$ to $(7, 9)$.

FLUENCY

Show your thinking

Answer

3. Find the length from $(-8, 2)$ to $(-3, 2)$.

FLUENCY

Show your thinking

Answer

4. Find the length from $(-1, -9)$ to $(-1, -4)$.

APPLICATION

Show your thinking

Answer

5. Find the length from $(-7, 4)$ to $(6, 4)$.

APPLICATION

Show your thinking

Answer

6. Find the length from $(5, -3)$ to $(5, 8)$.

APPLICATION

Show your thinking

Answer

7. A rectangle has vertices $(-4, -1)$, $(3, -1)$, $(3, 5)$ and $(-4, 5)$. 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