



Graphing in four quadrants

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Sketch a grid; final answers in the boxes. One skill: **graphing in all four quadrants**.

WORKED EXAMPLE

(x, y) = across, then up/down. I (+,+), II (-,+), III (-,-), IV (+,-). Reflect across the **x-axis** → the **y** flips. Reflect across the **y-axis** → the **x** flips.

1. In which quadrant is (6, 2)?

FLUENCY

Show your thinking

Answer

2. In which quadrant is (-1, 9)?

FLUENCY

Show your thinking

Answer

3. In which quadrant is (-7, -4)?

FLUENCY

Show your thinking

Answer

4. In which quadrant is $(8, -1)$?

APPLICATION

Show your thinking

Answer

5. Reflect $(-2, -6)$ across the x-axis. Give the new coordinates and say which number changed.

APPLICATION

Show your thinking

Answer

6. Reflect $(5, 4)$ across the y-axis. Give the new coordinates and say which number changed.

APPLICATION

Show your thinking

Answer

7. Where does the point $(-3, 0)$ sit? Explain why it is not in any quadrant.

REASONING

Show your thinking

Answer

8. On a map with the school at $(0, 0)$, the library is at $(2, -9)$ and the pool is at $(-9, 2)$. Are these the same place? Describe each location.

REASONING

Show your thinking

Answer