



Rational numbers on the number line

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Sketch number lines or grids; final answers in the boxes. One skill: **rational numbers on the number line and grid**.

WORKED EXAMPLE

Numbers increase **left to right**. On the negative side, a bigger digit means farther LEFT (-9 is left of -3). Fractions live between whole numbers: convert first ($-1\frac{1}{2} = -5.5$). On a grid, **(x, y)** = across, then up/down.

1. Which is farther left: -8 or -5 ?

FLUENCY

Show your thinking

Answer

2. Between which two whole numbers does $-\frac{3}{4}$ lie?

FLUENCY

Show your thinking

Answer

3. Between which two whole numbers does 1.5 lie?

FLUENCY

Show your thinking

Answer

4. Write $-5/2$ as a decimal, then name the two whole numbers it lies between.

APPLICATION

Show your thinking

Answer

5. Name the quadrant for the point $(-2, 4)$ and explain using the signs.

APPLICATION

Show your thinking

Answer

6. Name the quadrant for the point $(6, -3)$ and explain using the signs.

APPLICATION

Show your thinking

Answer

7. The point $(-3, 5)$ is reflected across the y -axis. What are the new coordinates? Explain what changed.

REASONING

Show your thinking

Answer

8. What is the opposite of $7/2$? Where does each sit on a number line relative to 0?

REASONING

Show your thinking

Answer