



Positive & negative numbers

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Show your thinking; final answers in the boxes. One skill: **positive and negative numbers in real situations**.

WORKED EXAMPLE

The sign shows **direction from zero**. A withdrawal is $-$, a deposit is $+$. Zero is the agreed reference point: break-even for money, freezing for temperature, sea level for elevation.

1. Write a signed number: a loss of 20 points.

FLUENCY

Show your thinking

Answer

2. Write a signed number: 5 degrees above zero.

FLUENCY

Show your thinking

Answer

3. Write a signed number: a debt of \$75.

FLUENCY

Show your thinking

Answer

4. A bank balance is $-\$25$. You deposit $\$60$. What is the new balance?

APPLICATION

Show your thinking

Answer

5. A diver is 40 feet below the surface. Write the depth as a signed number and say what 0 represents.

APPLICATION

Show your thinking

Answer

6. What is the opposite of -9 ? Explain what that means on a number line.

APPLICATION

Show your thinking

Answer

7. A team is -18 yards for the game, then gains 18 yards. What is the new total, and what does that number mean?

REASONING

Show your thinking

Answer

8. Two towns record temperatures of -12°C and $+12^{\circ}\text{C}$. Which is farther from freezing? Explain.

REASONING

Show your thinking

Answer