



Positive & negative numbers

GRADE 6 MATH

Name _____

Date _____

Work through the sheet in order. Show your thinking; final answers go in the boxes. One skill: **positive and negative numbers in real situations**.

WORKED EXAMPLE

The sign shows **direction from zero**. Zero is whatever the situation agrees to call the starting point: freezing for temperature, sea level for elevation, break-even for money, ground floor for a building.

1. Write a signed number: a temperature of 8 degrees below zero.

FLUENCY

Show your thinking

Answer

2. Write a signed number: a gain of 15 yards in a football game.

FLUENCY

Show your thinking

Answer

3. Write a signed number: 250 feet above sea level.

FLUENCY

Show your thinking

Answer

4. An elevator starts at the ground floor and goes down 3 levels. Write its position as a signed number and say what 0 represents.

APPLICATION

Show your thinking

Answer

5. The temperature is -2°C and drops 6 more degrees. What is the new temperature?

APPLICATION

Show your thinking

Answer

6. A business loses \$15 in week one and earns \$40 in week two. What is the two-week total?

APPLICATION

Show your thinking

Answer

7. What is the opposite of 12? What is the opposite of the opposite of 12? Explain.

REASONING

Show your thinking

Answer

8. Two hikers are at -30 m and $+30$ m relative to sea level. Who is farther from sea level? Explain your reasoning.

REASONING

Show your thinking

Answer

9. Maya says 'a bank balance of 0 means the same thing as having no bank account.' Explain why she is wrong, using what 0 means in this context.

REASONING

Show your thinking

Answer