

Integer Operations

Name:

Date:

INQUIRY

The deepest point in the East China Sea is $-2,719$ m. Mount Hallasan in Korea is $+1,947$ m. What's the difference?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Integer	Any positive/negative whole number or zero.
Absolute value	Distance from zero. $ -7 = 7$.

Part A — Calculating

1. Calculate: (a) -8×3 (b) $(-4) \times (-6)$ (c) $-20 \div 5$ (d) $(-12) \div (-3)$. [4 marks]

Show your working:

2. Calculate: (a) $-3 + (-5) \times 2$ (b) $(-4)^2 - 10$ (c) $8 - 3 \times (-2)$. [3 marks]

Show your working:

Part B — Application

3. Deepest sea point: -2,719 m. Mount Hallasan: +1,947 m. Find the total difference in elevation. [2 marks]

Show your working:

4. A bank account: balance -350 yuan. Deposit 500, withdraw 200. New balance? [2 marks]

Show your working: