

Negative Numbers

Name:

Date:

INQUIRY

In January, Nanjing can reach -5 degrees C while Seoul hits -15 degrees C. Which city is colder? How much colder?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Negative number	A number less than zero. Found to the left of zero on a number line.
Integer	A whole number (positive, negative, or zero).

Part A — Ordering

- Order from smallest to largest: 3, -7, 0, -2, 5, -5, 1. [2 marks]
- Winter temperatures: Nanjing -5°C , Seoul -15°C , Berlin -8°C , NIS classroom 22°C . Order coldest to warmest. [2 marks]

Part B — Calculating

- Calculate: (a) $-4 + 9$ (b) $3 - 8$ (c) $-6 + (-2)$ (d) $-3 - (-5)$ (e) $7 + (-10)$. [5 marks]

Show your working:

4. The temperature at 6am in Seoul is -12°C . By noon it rises 18 degrees. What is the noon temperature? [2 marks]

Show your working:

5. A submarine near Jeju Island is at -200m . It rises 75m then dives 120m. What is its final depth? [2 marks]

Show your working:

Part C — Application

6. Nanjing's temperature range in 2024: lowest -7°C , highest 39°C . Find the total range. [2 marks]

Show your working: