

Adding Integers

- ① Kowmuk's dad gave him \$20. Kowmuk spent \$12 at the store. How much did he have left? Use a number line to help determine your answer.
- ② The temperature in Resolute, Nunavut, one afternoon in May was -8°C . The temperature decreased by 6°C to reach the overnight low temperature. What was the overnight low temperature? Use a number line to help determine your answer.
- ③ a) The most rapid temperature increase caused by a chinook took place in Spearfish, South Dakota. One January morning, the temperature was -20°C . The temperature then increased by 27°C in two minutes. What was the final temperature?
- b) Later that morning, the temperature in Spearfish had climbed to $+12^{\circ}\text{C}$. It then dropped by 32°C in 27 minutes. What was the final temperature?

- 4) a) A submarine was cruising at a depth of 50 m. The captain brought the submarine up by 34 m to reach periscope depth. What was periscope depth for this submarine?

- b) The captain took the submarine down by 74 m from periscope depth to a new cruising depth. What was this cruising depth?

- 5) Is each statement always true, sometimes true, or never true? Explain your reasoning.
- a) The sum of two negative integers is a positive integer.
 - b) The sum of a positive integer and a negative integer is zero.
 - c) The sum of a positive integer and zero is a positive integer.
 - d) The sum of a positive integer and a negative integer is a negative integer.

- 6) The integers from +1 to +6 are marked on the faces of a number cube. The integers from -1 to -6 are marked on the faces of another number cube. What possible totals can you score by rolling both number cubes?

