Warm-up

1. A stock price was **$35** per share in the morning but dropped by **$42** by the afternoon. What is the new price? $(+35) - (+42)$

   -7

2. The population of Number City was **5,000**. Due to a festival, **600** people moved in, but **850** people left. What is the new population?

   $(+5000) + (+600) - (+850)$
   $(+5600) - (+850)$
   4750

3. A football team gained **7 yards** on a play but then lost **15 yards** on the next play. What is their new yardage?

   $(+7) + (-15)$
   -8

4. A diver started at the surface (0 meters) and dove **-25 meters**. He then swam up **8 meters**. What is his new depth?

   $0 - (25) + (+8)$
   $-25 + (+8) = -17$

5. A company's revenue was **$10,000** last month. This month, it decreased by **$3,500**. What is the new revenue?

   $(+10000) - (+3500)$
   $(+6500)$

This week:
- Review review review
  - Test FRIDAY

TODAY

Review Period
- There should be NO talking during this.

Don't model subtraction with a number line

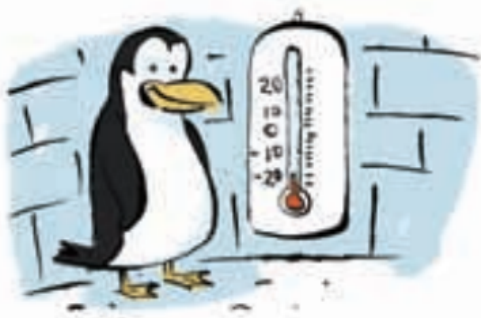*Model with tiles instead

LESSON

2.3
2.5

9. Use a number line to add or subtract.
   a) $(-1) + (+3)$ **b)** $(+6) + (-4)$
   c) $(-4) - (+6)$ **d)** $(-5) - (-3)$

10. When you add two positive integers, their sum is always a positive integer.
   When you subtract two positive integers, is their difference always a positive integer? Explain.

11. **a)** What temperature is 7°C warmer than 2°C?
   b) What temperature is 5°C warmer than −5°C?
   c) What temperature is 8°C cooler than 2°C?
   d) What temperature is 4°C cooler than −3°C?

2.4
2.5

12. Use tiles or a number line to subtract. Write the subtraction equations.
   a) $(+4) - (+1)$ **b)** $(+5) - (-1)$
   c) $(+2) - (-2)$ **d)** $(-4) - (+1)$
   e) $(-6) - (-2)$ **f)** $(-10) - (-5)$
   g) $(-4) - (-2)$ **h)** $(-5) - (-10)$

13. Subtract.
   a) $(+7) - (+2)$ **b)** $(-7) - (+3)$
   c) $(-4) - (-5)$ **d)** $(+3) - (+3)$
   e) $(+3) - (-3)$ **f)** $(-3) - (-2)$

14. Use tiles or a number line. Find the difference between:
   a) a temperature of +5°C and −7°C
   b) an elevation of −100 m and +50 m

15. What is the difference in heights? How can you subtract to find out?
   a) A water level of 2 m below sea level and a water level of 7 m above sea level
   b) A balloon 25 m above ground and a balloon 11 m above ground

16. What is the difference in masses? How can you subtract to find out?
   a) A gain of 9 kg and a loss of 3 kg
   b) A loss of 6 kg and a loss of 5 kg

17. We measure time in hours. Suppose 12 noon is represented by the integer 0.
   a) Which integer represents 1 p.m. the same day?
   b) Which integer represents 10 a.m. the same day?
   c) Find the difference between these times in 2 ways. Show your work.

18. **a)** Find 5 pairs of integers with a difference of +6.
   b) Find 5 pairs of integers with a difference of −3.