What Should I Be Able to Do?

For extra practice, go to page 446.

LESSON

9.1 **1.** Draw a number line. Mark each integer on the number line:
$+3, -5, +1, -2$

2. Use an integer to represent each situation.
- **a)** a golf score of 2 strokes under par
- **b)** 250 m below sea level
- **c)** 32°C
- **d)** a loss of $125
- **e)** an increase of $3 in the monthly cost of cable television

9.2 **3.** Order these integers from least to greatest:
$+200, -55, +150, -3, -54$

9.4 **4.** Use tiles to add or subtract.
9.6
- **a)** $(-1) + (+3)$
- **b)** $(+3) + (-4)$
- **c)** $(-2) - (+3)$
- **d)** $(-1) - (-3)$

9.5 **5.** Use a number line to add or subtract.
9.7
- **a)** $(-1) + (+3)$
- **b)** $(+6) + (-4)$
- **c)** $(-4) - (+6)$
- **d)** $(-5) - (-3)$

6. 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.

7. At midnight in North Bay, the temperature was −5°C. During the next 24 h, the temperature rose 12°C, then dropped 9°C. What was the final temperature? Show your work.

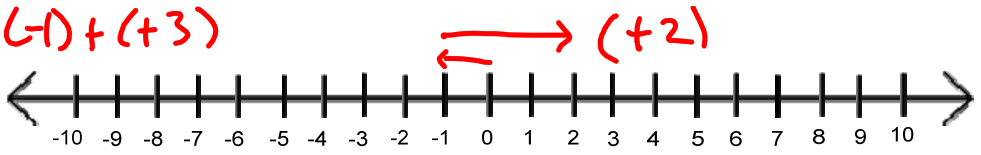
9.6 **8.** Use tiles or a number line to subtract.
9.7
- **a)** $(+4) - (+1)$
- **b)** $(+5) - (-1)$
- **c)** $(+2) - (-2)$
- **d)** $(-4) - (+1)$
- **e)** $(-6) - (-2)$
- **f)** $(-10) - (-5)$
- **g)** $(-4) - (-2)$

9. 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
- **c)** a golf score of 1 over par and 2 under par

10. Subtract.
- **a)** $(+3) - (+1)$
- **b)** $(-5) - (-2)$
- **c)** $(+100) - (+60)$
- **d)** $(-100) - (+60)$

11. **a)** Find 5 pairs of integers with a sum of -6.
- **b)** Find 5 pairs of integers with a difference of -3.

5 a) (-1) + (+3)


(+2)
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

b)


-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

c) (-2) - (+3)


-5
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10


-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10