

Lesson 1 Practice Problems

1.
 - a. Is a temperature of -11 degrees warmer or colder than a temperature of -15 degrees?
 - b. Is an elevation of -10 feet closer or farther from the surface of the ocean than an elevation of -8 feet?
 - c. It was 8 degrees at nightfall. The temperature dropped 10 degrees by midnight. What was the temperature at midnight?
 - d. A diver is 25 feet below sea level. After he swims up 15 feet toward the surface, what is his elevation?

2.
 - a. A whale is at the surface of the ocean to breathe. What is the whale's elevation?
 - b. The whale swims down 300 feet to feed. What is the whale's elevation now?
 - c. The whale swims down 150 more feet more. What is the whale's elevation now?
 - d. Plot each of the three elevations as a point on a vertical number line. Label each point with its numeric value.

3. Explain how to calculate a number that is equal to $\frac{2.1}{1.5}$.

(From Unit 6, Lesson 5.)

4. Write an equation to represent each situation and then solve the equation.
- Andre drinks 15 ounces of water, which is $\frac{3}{5}$ of a bottle. How much does the bottle hold? Use x for the number of ounces of water the bottle holds.
 - A bottle holds 15 ounces of water. Jada drank 8.5 ounces of water. How many ounces of water are left in the bottle? Use y for the number of ounces of water left in the bottle.
 - A bottle holds z ounces of water. A second bottle holds 16 ounces, which is $\frac{8}{5}$ times as much water. How much does the first bottle hold?

(From Unit 6, Lesson 4.)

5. A rectangle has an area of 24 square units and a side length of $2\frac{3}{4}$ units. Find the other side length of the rectangle. Show your reasoning.

(From Unit 4, Lesson 13.)