### Lesson 12 Practice Problems

1. Describe a situation where each of the following quantities might be useful.
   1. -20 gallons per hour
   2. -10 feet per minute
   3. -0.1 kilograms per second
2. A submarine is only allowed to change its depth by rising toward the surface in 60-meter stages. It starts off at -340 meters.
   1. At what depth is it after:
      1. 1 stage
      2. 2 stages
      3. 4 stages
   2. How many stages will it take to return to the surface?
3. Some boats were traveling up and down a river. A satellite recorded the movements of several boats.
   1. A motor boat traveled -3.4 miles per hour for 0.75 hours. How far did it go?
   2. A tugboat traveled -1.5 miles in 0.3 hours. What was its velocity?
   3. What do you think that negative distances and velocities could mean in this situation?
   4. A cookie recipe uses 3 cups of flour to make 15 cookies. How many cookies can you make with this recipe with 4 cups of flour? (Assume you have enough of the other ingredients.)
   5. A teacher uses 36 centimeters of tape to hang up 9 student projects. At that rate, how much tape would the teacher need to hang up 10 student projects?

* (From Unit 4, Lesson 3.)

1. Evaluate each expression. When the answer is not a whole number, write your answer as a fraction.

* (From Unit 5, Lesson 11.)



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