### 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.
	1. $-4⋅-6$
	2. $-24⋅\frac{-7}{6}$
	3. $4÷-6$
	4. $\frac{4}{3}÷-24$
* (From Unit 5, Lesson 11.)



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