### Lesson 13 Practice Problems

1. The value of $x$ is $\frac{-1}{4}$. Order these expressions from least to greatest:
* $x$
* $1−x$
* $x−1$
* $-1÷x$
*
1. Here are four expressions that have the value $\frac{-1}{2}$:
* $\frac{-1}{4}+\left(\frac{-1}{4}\right)$
* $\frac{1}{2}−1$
* $-2⋅\frac{1}{4}$
* $-1÷2$
* Write five expressions: a sum, a difference, a product, a quotient, and one that involves at least two operations that have the value $\frac{-3}{4}$.
1. Find the value of each expression.
	1. $-22+5$
	2. $-22−\left(-5\right)$
	3. $\left(-22\right)\left(-5\right)$
	4. $-22÷5$
2. The price of an ice cream cone is $3.25, but it costs $3.51 with tax. What is the sales tax rate?
* (From Unit 4, Lesson 10.)
1. Two students are both working on the same problem: A box of laundry soap has 25% more soap in its new box. The new box holds 2 kg. How much soap did the old box hold?
	* Here is how Jada set up her double number line.
	* 
	* Here is how Lin set up her double number line.
	* 
* Do you agree with either of them? Explain or show your reasoning.
* (From Unit 4, Lesson 7.)
	1. A coffee maker’s directions say to use 2 tablespoons of ground coffee for every 6 ounces of water. How much coffee should you use for 33 ounces of water?
	2. A runner is running a 10 km race. It takes her 17.5 minutes to reach the 2.5 km mark. At that rate, how long will it take her to run the whole race?
* (From Unit 4, Lesson 3.)



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