

## **Lesson 13 Practice Problems**

1. The value of x is  $\frac{-1}{4}$ . Order these expressions from least to greatest:

 $\chi$ 

1-x

x-1

 $-1 \div x$ 

2. Here are four expressions that have the value  $\frac{-1}{2}$ :

 $\frac{-1}{4} + \left(\frac{-1}{4}\right)$   $\frac{1}{2} - 1$   $-2 \cdot \frac{1}{4}$   $-1 \div 2$ 

Write five expressions: a sum, a difference, a product, a quotient, and one that involves at least two operations that have the value  $\frac{-3}{4}$ .

3. Find the value of each expression.

a. 
$$-22 + 5$$

b. 
$$-22 - (-5)$$

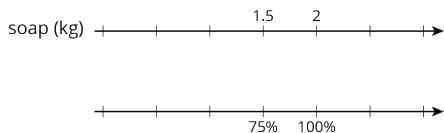
d. 
$$-22 \div 5$$

4. The price of an ice cream cone is \$3.25, but it costs \$3.51 with tax. What is the sales tax rate?

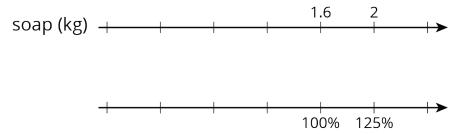
(From Unit 4, Lesson 10.)



- 5. 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.)

- 6. a. 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?
  - b. 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.)