## Lesson 13 Practice Problems

1. The value of $x$ is $\frac{-1}{4}$. Order these expressions from least to greatest: $x$
$1-x$
$x-1$ $-1 \div x$
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. $-22-(-5)$
c. $(-22)(-5)$
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.)

