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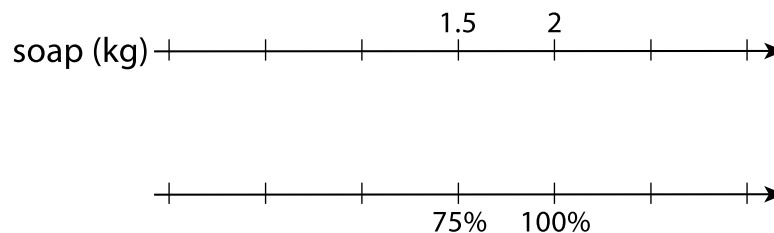
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Unit 5, Lesson 13

Practice Problems

- 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?
 - 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?
- The price of an ice cream cone is \$3.25, but it costs \$3.51 with tax. What is the sales tax rate?
- Find the value of each expression.
 - $-22 + 5$
 - $-22 - (-5)$
 - $(-22)(-5)$
 - $(-22) \div 5$
- 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.



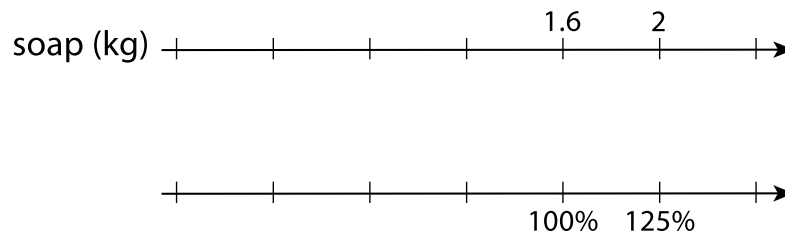
- Here is how Lin set up her double number line.



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Do you agree with either of them? Explain or show your reasoning.

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

x

$1 - x$

$x - 1$

$-1 \div x$

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

$\frac{-1}{4} + (\frac{-1}{4})$

$\frac{1}{2} - 1$

$-2 \cdot \frac{1}{4}$

$-1 \div 2$

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