Lesson 5 Practice Problems

1. Here are some prices customers paid for different items at a farmer's market. Find the cost for 1 pound of each item.

   a. \$5 for 4 pounds of apples

   b. \$3.50 for $\frac{1}{2}$ pound of cheese

   c. \$8.25 for $1\frac{1}{2}$ pounds of coffee beans

   d. \$6.75 for $\frac{3}{4}$ pounds of fudge

   e. \$5.50 for a $6\frac{1}{4}$ pound pumpkin

   (From Unit 4, Lesson 2.)

2. Find the products.

   a. $\frac{2}{3} \cdot \left(\frac{-4}{5}\right)$

   b. $\left(\frac{-5}{7}\right) \cdot \left(\frac{7}{5}\right)$

   c. $\left(\frac{-2}{39}\right) \cdot 39$

   d. $\left(\frac{2}{5}\right) \cdot \left(\frac{-3}{4}\right)$

   (From Unit 5, Lesson 9.)

3. Here are two stories:

   - A family buys 6 tickets to a show. They also *each* spend $3 on a snack. They spend $24 on the show.

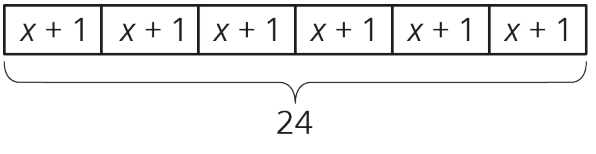
   - Diego has 24 ounces of juice. He pours equal amounts for each of his 3 friends, and then adds 6 more ounces for each.

   Here are two equations:

   - $3(x + 6) = 24$
   - $6(x + 3) = 24$

   a. Which equation represents which story?
   b. What does x represent in each equation?
   c. Find the solution to each equation. Explain or show your reasoning.
   d. What does each solution tell you about its situation?

4. Here is a diagram and its corresponding equation. Find the solution to the equation and explain your reasoning.



$6(x + 1) = 24$

5. Below is a set of data about temperatures. The *range* of a set of data is the distance between the lowest and highest value in the set. What is the range of these temperatures?

   $9^\circ C, -3^\circ C, 22^\circ C, -5^\circ C, 11^\circ C, 15^\circ C$

   (From Unit 5, Lesson 7.)

6. A store is having a 25% off sale on all shirts. Show two different ways to calculate the sale price for a shirt that normally costs $24.

   (From Unit 4, Lesson 11.)