

Unit 6 Lesson 5 Cumulative 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:

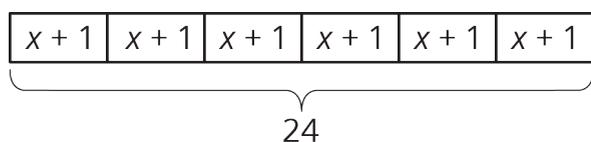
- A family buys 6 tickets to a show. They also *each* spend \$3 on a snack. They spend \$24 on the show.
- Diego has 24 ounces of juice. He pours equal amounts for each of his 3 friends, and then adds 6 more ounces for each.

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°C, -3°C, 22°C, -5°C, 11°C, 15°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.)