



NAME \_\_\_\_\_

DATE \_\_\_\_\_

PERIOD \_\_\_\_\_

**Unit 6, Lesson 12****Practice Problems**

- A backpack normally costs \$25 but it is on sale for \$21. What percentage is the discount?
- Find each product.
  - $\frac{2}{5} \cdot (-10)$
  - $-8 \cdot \left(-\frac{3}{2}\right)$
  - $\frac{10}{6} \cdot 0.6$
  - $\left(-\frac{100}{37}\right) \cdot (-0.37)$
- Select **all** expressions that show  $x$  increased by 35%.
  - $1.35x$
  - $\frac{35}{100}x$
  - $x + \frac{35}{100}x$
  - $(1 + 0.35)x$
  - $\frac{100+35}{100}x$
  - $(100 + 35)x$
- Complete each sentence with the word *discount*, *deposit*, or *withdrawal*.
  - Clare took \$20 out of her bank account. She made a \_\_\_\_\_.
  - Kiran used a coupon when he bought a pair of shoes. He got a \_\_\_\_\_.
  - Priya put \$20 into her bank account. She made a \_\_\_\_\_.
  - Lin paid less than usual for a pack of gum because it was on sale. She got a \_\_\_\_\_.



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5. Here are two stories:

- The initial freshman class at a college is 10% smaller than last year's class. But then during the first week of classes, 20 more students enroll. There are then 830 students in the freshman class.
- A store reduces the price of a computer by \$20. Then during a 10% off sale, a customer pays \$830.

Here are two equations:

- $0.9x + 20 = 830$
- $0.9(x - 20) = 830$

- Decide which equation represents each story.
- Explain why one equation has parentheses and the other doesn't.
- Solve each equation, and explain what the solution means in the situation.