### Percent Word Problems as Decimal Expressions

**Determine which expression is the correct answer.**

1) A cell phone company dropped the prices on their phones by 9%. Which expression shows the new price of the phones (p)?
   - A. \( p - 0.09p \)
   - B. \( p - 1.09 \)
   - C. \( p \times 0.09 \)
   - D. \( p - 0.09 \)

2) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by \( g \))
   - A. \( g \times 0.03 \)
   - B. \( g - 1.03 \)
   - C. \( g - 0.03g \)
   - D. \( g - 0.03 \)

3) While clearing out some old inventory a store offered 10 percent off of any item (i). Which expression can be used to calculate the new cost of an item?
   - A. \( i - 1.1 \)
   - B. \( i - 0.1i \)
   - C. \( i \times 0.1 \)
   - D. \( i - 0.1 \)

4) Joe was earning $11 an hour before his raise. After his 5% raise he was making $11.55 an hour. Which expression shows how his new hourly rate was calculated?
   - A. \( 11 \times 1.05 \)
   - B. \( 11 \times 0.05 \)
   - C. \( 11 + 0.05 \)
   - D. \( 11 + 1.05 \)

5) A mall kiosk needed to buy 33 new cell phone cases at \( z \) dollars a piece. Because they were buying so many they got 5% off the price. Which expression shows how much money they saved?
   - A. \( 33z - 0.05 \)
   - B. \( 0.05 \times 33z \)
   - C. \( 33z + 0.05 \)
   - D. \( 33z + 1.05 \)

6) Roger drew a square with each side being exactly 12 centimeters long. If he wanted to make the square 6% larger which expression can he use to find the new sides length?
   - A. \( 12 + 1.06 \)
   - B. \( 12 \times 1.06 \)
   - C. \( 12 \times 0.06 \)
   - D. \( 12 + 0.06 \)

7) The regular price of a computer was 893 dollars, but over the weekend it'll be on sale for for 10 percent off. Which expression shows the difference in price from normal (\( n \)) to sale?
   - A. \( n - 10 \)
   - B. \( n \times 0.1 \)
   - C. \( n - 1.1 \)
   - D. \( n - 0.1 \)

8) A house was on sell for $23,474. If you wanted to offer 7% less than the asking price (\( p \)) which expression shows how much you should offer?
   - A. \( p - 0.07 \)
   - B. \( p - 0.07p \)
   - C. \( p - 1.07 \)
   - D. \( p \times 0.07 \)

9) A company was having a sale for 19% off the price of computer monitors. Which expression shows how much money you would save if you bought 25 monitors for \( z \) dollars a piece?
   - A. \( 25z - 0.19 \)
   - B. \( 25z + 1.19 \)
   - C. \( 0.19 \times 25z \)
   - D. \( 25z + 0.19 \)

10) Last year the price of a college textbook (\( b \)) was $197. This year the price will be 13% higher. Which expression shows the difference in price from last year to this year?
    - A. \( b \times 0.13 \)
    - B. \( b - 1.13 \)
    - C. \( b - 0.13 \)
    - D. \( b - 13 \)
Determine which expression is the correct answer.

1) A cell phone company dropped the prices on their phones by 9%. Which expression shows the new price of the phones (p)?
   A. p - 0.09p  
   B. p - 1.09  
   C. p × 0.09  
   D. p - 0.09

2) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
   A. g × 0.03  
   B. g - 1.03  
   C. g - 0.03g  
   D. g - 0.03

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   A. i - 1.1  
   B. i - 0.1i  
   C. i × 0.1  
   D. i - 0.1

4) Joe was earning $11 an hour before his raise. After his 5% raise he was making $11.55 an hour. Which expression shows how his new hourly rate was calculated?
   A. 11 × 1.05  
   B. 11 × 0.05  
   C. 11 + 0.05  
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5) A mall kiosk needed to buy 33 new cell phone cases at z dollars a piece. Because they were buying so many they got 5% off the price. Which expression shows how much money they saved?
   A. 33z - 0.05  
   B. 0.05 × 33z  
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   B. n × 0.1  
   C. n - 1.1  
   D. n - 0.1

8) A house was on sell for $23,474. If you wanted to offer 7% less than the asking price (p) which expression shows how much you should offer?
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   B. p - 0.07p  
   C. p - 1.07  
   D. p × 0.07

9) A company was having a sale for 19% off the price of computer monitors. Which expression shows how much money you would save if you bought 25 monitors for z dollars a piece?
   A. 25z - 0.19  
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   C. 0.19 × 25z  
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    A. b × 0.13  
    B. b - 1.13  
    C. b - 0.13  
    D. b - 13

Name:  

Answers  

1. A  
2. C  
3. B  
4. A  
5. B  
6. B  
7. B  
8. B  
9. C  
10. A