Percent Word Problems as Decimal Expressions   Name:

Determine which expression is the correct answer.

1) Joe was earning $8 an hour before his raise. After his 5% raise he was making $8.4 an hour. Which expression shows how his new hourly rate was calculated?

A. $8 + 1.05$ B. $8 + 0.05$ C. 8×1.05 D. 8×0.05

2) Roger drew a square with each side being exactly 13 centimeters long. If he wanted to make the square 12% larger which expression can he use to find the new sides length?

A. 13×1.12 B. $13 + 1.12$ C. 13×0.12 D. $13 + 0.12$

3) Last year the price of a college textbook(b) was $189. This year the price will be 9% higher. Which expression shows the difference in price from last year to this year?

A. $b - 9$ B. $b \times 0.09$ C. $b - 1.09$ D. $b - 0.09$

4) A mall kiosk needed to buy 36 new cell phone cases at z dollars a piece. Because they were buying so many they got 20% off the price. Which expression shows how much money they saved?

A. $0.2 \times 36z$ B. $36z + 1.2$ C. $36z + 0.2$ D. $36z - 0.2$

5) A cell phone company dropped the prices on their phones by 8%. Which expression shows the new price of the phones(p)?

A. $p \times 0.08$ B. $p - 0.08$ C. $p - 0.08p$ D. $p - 1.08$

6) Over the summer gas prices dropped 2%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)

A. $g - 0.02g$ B. $g - 1.02$ C. $g \times 0.02$ D. $g - 0.02$

7) A company was having a sale for 12% off the price of computer monitors. Which expression shows how much money you would save if you bought monitors for z dollars a piece?

A. $23z + 0.12$ B. $23z - 0.12$ C. $23z + 1.12$ D. $0.12 \times 23z$

8) A house was on sell for $27,952. If you wanted to offer 7% less than the asking price(p) which expression shows how much you should offer?

A. $p - 1.07$ B. $p - 0.07p$ C. $p \times 0.07$ D. $p - 0.07$

9) While clearing out some old inventory a store offered 45 percent off of any item(i). Which expression can be used to calculate the new cost of an item?

A. $i - 0.45$ B. $i \times 0.45$ C. $i - 1.45$ D. $i - 0.45i$

10) A store raised the price on watermelons 15%. The original price for each was X dollars. Which expression shows the new price of the watermelons?

A. $X + (0.15 \times X)$ B. $X + 0.15$ C. $X + 1.15$ D. $X \times 0.15$

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

Math