



Determine which expression is the correct answer.

Answers

- 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) Last year the price of a college textbook(b) was \$220. This year the price will be 21% higher. Which expression shows the difference in price from last year to this year?
 A. $b - 0.21$ B. $b \times 0.21$ C. $b - 1.21$ D. $b - 21$

- 3) A store raised the price on watermelons 9%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 0.09$ B. $X + 1.09$ C. $X + (0.09 \times X)$ D. $X \times 0.09$

- 4) While clearing out some old inventory a store offered 50 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i \times 1.5$ B. $i - 1.5$ C. $i - 0.5i$ D. $i - 0.5$

- 5) An icecream bar was 647 calories. If they increased the size of the bar by 10% which expression can be used to find the new calorie count?
 A. $647 + 1.1$ B. $647 + 0.1$ C. 647×1.1 D. 647×0.1

- 6) A company was having a sale for 20% 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. $0.2 \times 37z$ B. $37z + 1.2$ C. $37z - 0.2$ D. $37z + 0.2$

- 7) A cell phone company dropped the prices on their phones by 5%. Which expression shows the new price of the phones(p)?
 A. $p - 1.05$ B. $p - 0.05p$ C. $p \times 0.05$ D. $p - 0.05$

- 8) A box of cereal advertised having 42% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y + (0.42 \times y)$ B. $y + 0.42$ C. $y \times 0.42$ D. $y + 1.42$

- 9) A mall kiosk needed to buy 40 new cell phone cases at z dollars a piece. Because they were buying so many they got 14% off the price. Which expression shows how much money they saved?
 A. $40z - 0.14$ B. $0.14 \times 40z$ C. $40z + 1.14$ D. $40z + 0.14$

- 10) 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. $g - 0.02$ C. $g - 1.02$ D. $g \times 0.02$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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