



Percent Word Problems as Decimal Expressions

Name: _____

Determine which expression is the correct answer.

Answers

- 1) An icecream bar was 918 calories. If they increased the size of the bar by 5% which expression can be used to find the new calorie count?
A. $i - 1.05$ B. $i - 0.05$ C. $i - 5$ D. 918×1.05
1. _____
- 2) A mall kiosk needed to buy 29 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. $z - 5$ B. $0.05 \times 29z$ C. $z - 0.05$ D. $z - 1.05$
2. _____
- 3) This years model of a cell phone is 15 percent heavier than last years. This years model weight is represent by w . Which expression can be used to calculate the weight of last years model?
A. $i - 0.15$ B. $i - 1.15$ C. $i \div 1.15$ D. $i - 15$
3. _____
- 4) A cell phone company dropped the prices on their phones by 7%. Which expression shows the new price of the phones(p)?
A. $100p + 0.07$ B. $p - 1.07$ C. $p - 0.07p$ D. $p - 0.07$
4. _____
- 5) A store raised the price on watermelons 3%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
A. $100X + 0.03$ B. $X - 1.03$ C. $X - 0.03$ D. $X + (0.03 \times X)$
5. _____
- 6) A sandwich shop was charging \$3.21 for a sandwich, but raised the price 5% making them cost \$3.37. Which expression shows how the new price was calculated?
A. $s - 1.05$ B. $s - 0.05$ C. 3.21×1.05 D. $s - 5$
6. _____
- 7) A company was having a sale for 17% off the price of computer monitors. Which expression shows how much money you would save if you bought 24 monitors for z dollars a piece?
A. $z - 17$ B. $0.17 \times 24z$ C. $z - 1.17$ D. $z - 0.17$
7. _____
- 8) A box of cereal advertised having 27% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
A. $y - 1.27$ B. $y - 0.27$ C. $y + (0.27 \times y)$ D. $100y + 0.27$
8. _____
- 9) John drew a square with each side being exactly 15 centimeters long. If he wanted to make the square 5% larger which expression can he use to find the new sides length?
A. 15×1.05 B. $s - 5$ C. $s - 1.05$ D. $s - 0.05$
9. _____
- 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. $g - 0.02$ B. $g - 1.02$ C. $100g + 0.02$ D. $g - 0.02g$
10. _____



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Answers

1. **D**

2. **B**

3. **C**

4. **C**

5. **D**

6. **C**

7. **B**

8. **C**

9. **A**

10. **D**