



Percent Word Problems as Decimal Expressions

Name: _____

Determine which expression is the correct answer.

Answers

1) 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. $X - 0.03$ B. $X - 1.03$ C. $X + (0.03 \times X)$ D. $100X + 0.03$

2) This years model of a cell phone is 12 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. $i - 12$ B. $i - 0.12$ C. $i \div 1.12$ D. $i - 1.12$

3) Last year the price of a college textbook(b) was \$253. This year the price will be 24% higher. Which expression shows the difference in price from last year to this year?
 A. $b - 1.24$ B. $b \times 0.24$ C. $b - 24$ D. $b - 0.24$

4) 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. $r - 5$ C. $r - 0.05$ D. $r - 1.05$

5) A box of cereal advertised having 45% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y - 1.45$ B. $100y + 0.45$ C. $y - 0.45$ D. $y + (0.45 \times y)$

6) A cell phone company dropped the prices on their phones by 9%. Which expression shows the new price of the phones(p)?
 A. $p - 0.09$ B. $p - 0.09p$ C. $p - 1.09$ D. $100p + 0.09$

7) An icecream bar was 980 calories. If they increased the size of the bar by 9% which expression can be used to find the new calorie count?
 A. $i - 1.09$ B. $i - 0.09$ C. 980×1.09 D. $i - 9$

8) The regular price of a computer was 640 dollars, but over the weekend it'll be on sale for 17 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n - 1.17$ B. $n - 17$ C. $n \times 0.17$ D. $n - 0.17$

9) A mall kiosk needed to buy 32 new cell phone cases at z dollars a piece. Because they were buying so many they got 15% off the price. Which expression shows how much money they saved?
 A. $z - 0.15$ B. $z - 15$ C. $z - 1.15$ D. $0.15 \times 32z$

10) 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. $g - 1.03$ B. $g - 0.03g$ C. $100g + 0.03$ D. $g - 0.03$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



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Answers

1. **C**

2. **C**

3. **B**

4. **A**

5. **D**

6. **B**

7. **C**

8. **C**

9. **D**

10. **B**