Percent Word Problems as Decimal Expressions

Name:

Determine which expression is the correct answer.

1) A mall kiosk needed to buy 46 new cell phone cases at z dollars a piece. Because they were buying so many they got 16% off the price. Which expression shows how much money they saved?

A. $0.16 \times 46z$ B. $z - 0.16$ C. $z - 16$ D. $z - 1.16$

2) A house was on sell for $43,101. If you wanted to offer 15% less than the asking price(p) which expression shows how much you should offer?

A. $p - 0.15$ B. $p - 15$ C. $p - 1.15$ D. $p - 0.15p$

3) A cell phone company dropped the prices on their phones by 6%. Which expression shows the new price of the phones(p)?

A. $100p + 0.06$ B. $p - 1.06$ C. $p - 0.06$ D. $p - 0.06p$

4) 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. $i - 1.12$ B. $i \div 1.12$ C. $i - 12$ D. $i - 0.12$

5) While clearing out some old inventory a store offered 4 percent off of any item(i). Which expression can be used to calculate the new cost of an item?

A. $i - 1.04$ B. $100i + 0.04$ C. $i - 0.04i$ D. $i - 0.04$

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. $g - 0.02$ C. $g - 1.02$ D. $100g + 0.02$

7) 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. $r - 1.05$ B. $r - 5$ C. $r - 0.05$ D. 8×1.05

8) An icecream bar was 925 calories. If they increased the size of the bar by 8% which expression can be used to find the new calorie count?

A. $i - 8$ B. 925×1.08 C. $i - 0.08$ D. $i - 1.08$

9) The regular price of a computer was 871 dollars, but over the weekend it'll be on sale for for 23 percent off. Which expression shows the difference in price from normal(n) to sale?

A. $n - 23$ B. $n - 0.23$ C. $n - 1.23$ D. $n \times 0.23$

10) Last year the price of a college textbook(b) was $106. This year the price will be 14% higher. Which expression shows the difference in price from last year to this year?

A. $b \times 0.14$ B. $b - 1.14$ C. $b - 14$ D. $b - 0.14$

Answers

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

1-10	90	80	70	60	50	40	30	20	10	0

Percent Word Problems as Decimal Expressions Name: **Answer Key**

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Answers

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

1-10	90	80	70	60	50	40	30	20	10	0