Percent Word Problems as Decimal Expressions

Name:

Determine which expression is the correct answer.

1) An icecream bar was 720 calories. If they increased the size of the bar by 2% which expression can be used to find the new calorie count?

A. 720 + 0.02 B. 720 + 1.02 C. 720 × 0.02 D. 720 × 1.02

2) A sandwich shop was charging $3.42 for a sandwich, but raised the price 7% making them cost $3.66. Which expression shows how the new price was calculated?

A. 3.42 + 1.07 B. 3.42 + 0.07 C. 3.42 × 1.07 D. 3.42 × 0.07

3) A mall kiosk needed to buy 41 new cell phone cases at z dollars a piece. Because they were buying so many they got 7% off the price. Which expression shows how much money they saved?

A. 41z + 0.07 B. 41z + 1.07 C. 0.07 × 41z D. 41z - 0.07

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 × 1.5 B. i - 1.5 C. i - 0.5 D. i - 0.5i

5) The regular price of a computer was 771 dollars, but over the weekend it'll be on sale for for 14 percent off. Which expression shows the difference in price from normal(n) to sale?

A. n - 1.14 B. n × 0.14 C. n - 0.14 D. n - 14

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 - 1.02 B. g × 0.02 C. g - 0.02 D. g - 0.02g

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

A. p - 1.06 B. p - 0.06p C. p × 0.06 D. p - 0.06

8) This years model of a cell phone is 14 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. w × 0.14 B. w - 0.14 C. w - 1.14 D. w ÷ 1.14

9) A box of cereal advertised having 32% 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 × 0.32 B. y + (0.32 × y) C. y + 1.32 D. y + 0.32

10) George drew a square with each side being exactly 10 centimeters long. If he wanted to make the square 7% larger which expression can he use to find the new sides length?

A. 10 × 1.07 B. 10 + 0.07 C. 10 × 0.07 D. 10 + 1.07

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

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