Percent Word Problems as Decimal Expressions

Name:

Determine which expression is the correct answer.

1) A store raised the price on watermelons 5%. The original price for each was X dollars. Which expression shows the new price of the watermelons?

A. X + 1.05 B. X × 0.05 C. X + (0.05 × X) D. X + 0.05

2) A sandwich shop was charging $2.11 for a sandwich, but raised the price 8% making them cost $2.28. Which expression shows how the new price was calculated?

A. 2.11 × 1.08 B. 2.11 + 1.08 C. 2.11 × 0.08 D. 2.11 + 0.08

3) An icecream bar was 801 calories. If they increased the size of the bar by 4% which expression can be used to find the new calorie count?

A. 801 × 1.04 B. 801 × 0.04 C. 801 + 1.04 D. 801 + 0.04

4) 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 × 0.06 C. p - 0.06 D. p - 0.06p

5) While clearing out some old inventory a store offered 45 percent off of any item(i). Which expression can be used to calculate the new cost of an item?

A. i × 0.45 B. i - 0.45i C. i - 1.45 D. i - 0.45

6) Last year the price of a college textbook(b) was $168. This year the price will be 11% higher. Which expression shows the difference in price from last year to this year?

A. b - 11 B. b × 0.11 C. b - 0.11 D. b - 1.11

7) 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 × 0.02

8) A mall kiosk needed to buy 37 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. 0.14 × 37z B. 37z + 0.14 C. 37z + 1.14 D. 37z - 0.14

9) A company was having a sale for 13% 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. 36z + 1.13 B. 36z + 0.13 C. 0.13 × 36z D. 36z - 0.13

10) This years model of a cell phone is 5 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 × 0.05 B. w ÷ 1.05 C. w - 1.05 D. w - 0.05

Answers

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

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

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Answers

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

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