Percent Word Problems as Decimal Expressions

Name:

Determine which expression is the correct answer.

1) The regular price of a computer was 690 dollars, but over the weekend it'll be on sale for for 16 percent off. Which expression shows the difference in price from normal(n) to sale?

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

2) A mall kiosk needed to buy 45 new cell phone cases at z dollars a piece. Because they were buying so many they got 20% off the price. Which expression shows how much money they saved?

A. $0.2 \times 45z$　　　　B. 45z + 1.2　　　　C. 45z - 0.2　　　　D. 45z + 0.2

3) 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 - 0.03　　　　B. g - 0.03g　　　　C. g - 1.03　　　　D. $g \times 0.03$

4) An icecream bar was 579 calories. If they increased the size of the bar by 9% which expression can be used to find the new calorie count?

A. 579 + 1.09　　　　B. 579 + 0.09　　　　C. 579×1.09　　　　D. 579×0.09

5) A store raised the price on watermelons 2%. The original price for each was X dollars. Which expression shows the new price of the watermelons?

A. X + 0.02　　　　B. X + (0.02 × X)　　　　C. X + 1.02　　　　D. $X \times 0.02$

6) A company was having a sale for 10% 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. $0.1 \times 38z$　　　　B. 38z + 1.1　　　　C. 38z + 0.1　　　　D. 38z - 0.1

7) Sam drew a square with each side being exactly 11 centimeters long. If he wanted to make the square 9% larger which expression can he use to find the new sides length?

A. 11 + 0.09　　　　B. 11 + 1.09　　　　C. 11×0.09　　　　D. 11×1.09

8) A house was on sell for $56,894. If you wanted to offer 11% less than the asking price(p) which expression shows how much you should offer?

A. $p \times 0.11$　　　　B. p - 0.11　　　　C. p - 0.11p　　　　D. p - 1.11

9) A box of cereal advertised having 44% 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 + (0.44 × y)　　　　B. $y \times 0.44$　　　　C. y + 1.44　　　　D. y + 0.44

10) A sandwich shop was charging $3.94 for a sandwich, but raised the price 9% making them cost $4.29. Which expression shows how the new price was calculated?

A. 3.94×0.09　　　　B. 3.94 + 0.09　　　　C. 3.94×1.09　　　　D. 3.94 + 1.09

Answers

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

Math

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A. X + 0.02   B. X + $(0.02 \times X)$ C. X + 1.02   D. $X \times 0.02$

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