Percent Word Problems as Decimal Expressions

Name:

Determine which expression is the correct answer.

1) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)

A. g - 1.01 B. g - 0.01 C. g - 0.01g D. g × 0.01

2) A store raised the price on watermelons 7%. The original price for each was X dollars. Which expression shows the new price of the watermelons?

A. X + 0.07 B. X × 0.07 C. X + 1.07 D. X + (0.07 × X)

3) The regular price of a computer was 812 dollars, but over the weekend it'll be on sale for for 18 percent off. Which expression shows the difference in price from normal(n) to sale?

A. n - 0.18 B. n × 0.18 C. n - 18 D. n - 1.18

4) Joe was earning $7 an hour before his raise. After his 5% raise he was making $7.35 an hour. Which expression shows how his new hourly rate was calculated?

A. 7 + 1.05 B. 7 × 0.05 C. 7 × 1.05 D. 7 + 0.05

5) While clearing out some old inventory a store offered 10 percent off of any item(i). Which expression can be used to calculate the new cost of an item?

A. i - 0.1i B. i - 1.1 C. i × 0.1 D. i - 0.1

6) A mall kiosk needed to buy 24 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. 24z + 1.15 B. 24z + 0.15 C. 24z - 0.15 D. 0.15 × 24z

7) A house was on sell for $34,419. If you wanted to offer 5% less than the asking price(p) which expression shows how much you should offer?

A. p - 0.05p B. p - 0.05 C. p - 1.05 D. p × 0.05

8) A box of cereal advertised having 23% 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 + 0.23 B. y + (0.23 × y) C. y + 1.23 D. y × 0.23

9) An icecream bar was 554 calories. If they increased the size of the bar by 2% which expression can be used to find the new calorie count?

A. 554 + 0.02 B. 554 × 1.02 C. 554 + 1.02 D. 554 × 0.02

10) A company was having a sale for 5% 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. 40z + 0.05 B. 40z + 1.05 C. 40z - 0.05 D. 0.05 × 40z

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

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