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

2) A company was having a sale for 19% off the price of computer monitors. Which expression shows how much money you would save if you bought 37 monitors for z dollars a piece?

A. 37z + 1.19   B. 0.19 × 37z   C. 37z - 0.19   D. 37z + 0.19

3) 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 + 1.23   B. y + (0.23 × y)   C. y × 0.23   D. y + 0.23

4) George 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 × 1.09   D. 11 × 0.09

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

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

6) This years model of a cell phone is 6 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 - 0.06   B. w ÷ 1.06   C. w × 0.06   D. w - 1.06

7) An icecream bar was 635 calories. If they increased the size of the bar by 8% which expression can be used to find the new calorie count?

A. 635 × 0.08   B. 635 + 1.08   C. 635 × 1.08   D. 635 + 0.08

8) The regular price of a computer was 464 dollars, but over the weekend it'll be on sale for for 17 percent off. Which expression shows the difference in price from normal(n) to sale?

A. n - 17   B. n - 1.17   C. n × 0.17   D. n - 0.17

9) Last year the price of a college textbook(b) was $221. This year the price will be 7% higher. Which expression shows the difference in price from last year to this year?

A. b - 7   B. b × 0.07   C. b - 1.07   D. b - 0.07

10) A mall kiosk needed to buy 27 new cell phone cases at z dollars a piece. Because they were buying so many they got 5% off the price. Which expression shows how much money they saved?

A. 0.05 × 27z   B. 27z - 0.05   C. 27z + 0.05   D. 27z + 1.05

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

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

Math

Answers

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

1.   **B**

2) A company was having a sale for 19% off the price of computer monitors. Which expression shows how much money you would save if you bought 37 monitors for z dollars a piece?

    A. 37z + 1.19   B. 0.19 × 37z   C. 37z - 0.19   D. 37z + 0.19

2.   **B**

3) 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 + 1.23   B. y + (0.23 × y)   C. y × 0.23   D. y + 0.23

3.   **B**

4) George 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 × 1.09   D. 11 × 0.09

4.   **C**

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

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

5.   **C**

6) This years model of a cell phone is 6 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 - 0.06   B. w ÷ 1.06   C. w × 0.06   D. w - 1.06

6.   **B**

7) An icecream bar was 635 calories. If they increased the size of the bar by 8% which expression can be used to find the new calorie count?

    A. 635 × 0.08   B. 635 + 1.08   C. 635 × 1.08   D. 635 + 0.08

7.   **C**

8) The regular price of a computer was 464 dollars, but over the weekend it'll be on sale for for 17 percent off. Which expression shows the difference in price from normal(n) to sale?

    A. n - 17   B. n - 1.17   C. n × 0.17   D. n - 0.17

8.   **C**

9) Last year the price of a college textbook(b) was $221. This year the price will be 7% higher. Which expression shows the difference in price from last year to this year?

    A. b - 7   B. b × 0.07   C. b - 1.07   D. b - 0.07

9.   **B**

10) A mall kiosk needed to buy 27 new cell phone cases at z dollars a piece. Because they were buying so many they got 5% off the price. Which expression shows how much money they saved?

    A. 0.05 × 27z   B. 27z - 0.05   C. 27z + 0.05   D. 27z + 1.05

10.   **A**

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

Math