Percent Word Problems as Decimal Expressions

Name:

Determine which expression is the correct answer.

1) While clearing out some old inventory a store offered 25 percent off of any item(i). Which expression can be used to calculate the new cost of an item?

   A. i - 0.25i   B. i - 1.25   C. i - 0.25   D. i × 0.25

2) 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 - 0.01g   B. g - 1.01   C. g × 0.01   D. g - 0.01

3) 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 - 1.06   B. w ÷ 1.06   C. w × 0.06   D. w - 0.06

4) An icecream bar was 343 calories. If they increased the size of the bar by 9% which expression can be used to find the new calorie count?

   A. 343 × 1.09   B. 343 + 0.09   C. 343 + 1.09   D. 343 × 0.09

5) A house was on sell for $22,116. If you wanted to offer 13% less than the asking price(p) which expression shows how much you should offer?

   A. p - 1.13   B. p - 0.13   C. p × 0.13   D. p - 0.13p

6) 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 + 0.23   D. y + 1.23

7) Last year the price of a college textbook(b) was $226. This year the price will be 6% higher. Which expression shows the difference in price from last year to this year?

   A. b - 6   B. b - 0.06   C. b - 1.06   D. b × 0.06

8) A company was having a sale for 20% 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. 37z - 0.2   B. 37z + 0.2   C. 0.2 × 37z   D. 37z + 1.2

9) A cell phone company dropped the prices on their phones by 8%. Which expression shows the new price of the phones(p)?

   A. p - 1.08   B. p - 0.08p   C. p × 0.08   D. p - 0.08

10) 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 + 0.05   B. X + (0.05 × X)   C. X × 0.05   D. X + 1.05

Math   www.CommonCoreSheets.com

Answer Key

Determine which expression is the correct answer.

Answers

1) While clearing out some old inventory a store offered 25 percent off of any item(i). Which expression can be used to calculate the new cost of an item?

A. i - 0.25i   B. i - 1.25   C. i - 0.25   D. i × 0.25

1. **A**

2) 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 - 0.01g   B. g - 1.01   C. g × 0.01   D. g - 0.01

2. **A**

3. **B**

3) 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 - 1.06   B. w ÷ 1.06   C. w × 0.06   D. w - 0.06

4. **A**

4) An icecream bar was 343 calories. If they increased the size of the bar by 9% which expression can be used to find the new calorie count?

A. 343 × 1.09   B. 343 + 0.09   C. 343 + 1.09   D. 343 × 0.09

5. **D**

6. **B**

5) A house was on sell for $22,116. If you wanted to offer 13% less than the asking price(p) which expression shows how much you should offer?

A. p - 1.13   B. p - 0.13   C. p × 0.13   D. p - 0.13p

7. **D**

8. **C**

6) 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 + 0.23   D. y + 1.23

9. **B**

10. **B**

7) Last year the price of a college textbook(b) was $226. This year the price will be 6% higher. Which expression shows the difference in price from last year to this year?

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Math

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