Percent Word Problems as Decimal Expressions

Name:

Determine which expression is the correct answer.

1) Joe was earning $8 an hour before his raise. After his 5% raise he was making $8.4 an hour. Which expression shows how his new hourly rate was calculated?

A. 8 × 1.05 B. 8 × 0.05 C. 8 + 1.05 D. 8 + 0.05

2) Last year the price of a college textbook(b) was $220. This year the price will be 21% higher. Which expression shows the difference in price from last year to this year?

A. b - 0.21 B. b × 0.21 C. b - 1.21 D. b - 21

3) A store raised the price on watermelons 9%. The original price for each was X dollars. Which expression shows the new price of the watermelons?

A. X + 0.09 B. X + 1.09 C. X + (0.09 × X) D. X × 0.09

4) While clearing out some old inventory a store offered 50 percent off of any item(i). Which expression can be used to calculate the new cost of an item?

A. i × 1.5 B. i - 1.5 C. i - 0.5i D. i - 0.5

5) An icecream bar was 647 calories. If they increased the size of the bar by 10% which expression can be used to find the new calorie count?

A. 647 + 1.1 B. 647 + 0.1 C. 647 × 1.1 D. 647 × 0.1

6) 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. 0.2 × 37z B. 37z + 1.2 C. 37z - 0.2 D. 37z + 0.2

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

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

8) A box of cereal advertised having 42% 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 + (0.42 × y) B. y + 0.42 C. y × 0.42 D. y + 1.42

9) A mall kiosk needed to buy 40 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. 40z - 0.14 B. 0.14 × 40z C. 40z + 1.14 D. 40z + 0.14

10) 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

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**

Determine which expression is the correct answer.

1) Joe was earning $8 an hour before his raise. After his 5% raise he was making $8.4 an hour. Which expression shows how his new hourly rate was calculated?

A. 8 × 1.05 B. 8 × 0.05 C. 8 + 1.05 D. 8 + 0.05

2) Last year the price of a college textbook(b) was $220. This year the price will be 21% higher. Which expression shows the difference in price from last year to this year?

A. b - 0.21 B. b × 0.21 C. b - 1.21 D. b - 21

3) A store raised the price on watermelons 9%. The original price for each was X dollars. Which expression shows the new price of the watermelons?

A. X + 0.09 B. X + 1.09 C. X + (0.09 × X) D. X × 0.09

4) While clearing out some old inventory a store offered 50 percent off of any item(i). Which expression can be used to calculate the new cost of an item?

A. i × 1.5 B. i - 1.5 C. i - 0.5i D. i - 0.5

5) An icecream bar was 647 calories. If they increased the size of the bar by 10% which expression can be used to find the new calorie count?

A. 647 + 1.1 B. 647 + 0.1 C. 647 × 1.1 D. 647 × 0.1

6) 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. 0.2 × 37z B. 37z + 1.2 C. 37z - 0.2 D. 37z + 0.2

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

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

8) A box of cereal advertised having 42% 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 + (0.42 × y) B. y + 0.42 C. y × 0.42 D. y + 1.42

9) A mall kiosk needed to buy 40 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. 40z - 0.14 B. 0.14 × 40z C. 40z + 1.14 D. 40z + 0.14

10) 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

Answers

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

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