



# Percent Word Problems as Decimal Expressions

Name: \_\_\_\_\_

Determine which expression is the correct answer.

**Answers**

1) The regular price of a computer was 591 dollars, but over the weekend it'll be on sale for 13 percent off. Which expression shows the difference in price from normal(n) to sale?

A.  $n - 0.13$       B.  $n - 13$       C.  $n \times 0.13$       D.  $n - 1.13$

1. \_\_\_\_\_

2) 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 40 monitors for  $z$  dollars a piece?

A.  $z - 1.2$       B.  $z - 0.2$       C.  $z - 20$       D.  $0.2 \times 40z$

2. \_\_\_\_\_

3) A box of cereal advertised having 24% more marshmallows. The original cereal had  $y$  cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?

A.  $y - 0.24$       B.  $y - 1.24$       C.  $100y + 0.24$       D.  $y + (0.24 \times y)$

3. \_\_\_\_\_

4) Oliver drew a square with each side being exactly 6 centimeters long. If he wanted to make the square 13% larger which expression can he use to find the new sides length?

A.  $6 \times 1.13$       B.  $s - 1.13$       C.  $s - 0.13$       D.  $s - 13$

4. \_\_\_\_\_

5) Joe was earning \$6 an hour before his raise. After his 5% raise he was making \$6.3 an hour. Which expression shows how his new hourly rate was calculated?

A.  $r - 5$       B.  $6 \times 1.05$       C.  $r - 1.05$       D.  $r - 0.05$

5. \_\_\_\_\_

6) A sandwich shop was charging \$3.81 for a sandwich, but raised the price 9% making them cost \$4.15. Which expression shows how the new price was calculated?

A.  $3.81 \times 1.09$       B.  $s - 9$       C.  $s - 0.09$       D.  $s - 1.09$

6. \_\_\_\_\_

7) Last year the price of a college textbook( $b$ ) was \$169. This year the price will be 22% higher. Which expression shows the difference in price from last year to this year?

A.  $b - 22$       B.  $b \times 0.22$       C.  $b - 1.22$       D.  $b - 0.22$

7. \_\_\_\_\_

8) 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.  $z - 1.05$       B.  $z - 0.05$       C.  $0.05 \times 27z$       D.  $z - 5$

8. \_\_\_\_\_

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

A.  $p - 0.06p$       B.  $p - 1.06$       C.  $100p + 0.06$       D.  $p - 0.06$

9. \_\_\_\_\_

10) A store raised the price on watermelons 13%. The original price for each was  $X$  dollars. Which expression shows the new price of the watermelons?

A.  $X + (0.13 \times X)$       B.  $X - 0.13$       C.  $100X + 0.13$       D.  $X - 1.13$

10. \_\_\_\_\_



Determine which expression is the correct answer.

**Answers**

1) The regular price of a computer was 591 dollars, but over the weekend it'll be on sale for 13 percent off. Which expression shows the difference in price from normal(n) to sale?

A.  $n - 0.13$       B.  $n - 13$       C.  $n \times 0.13$       D.  $n - 1.13$

2) 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 40 monitors for  $z$  dollars a piece?

A.  $z - 1.2$       B.  $z - 0.2$       C.  $z - 20$       D.  $0.2 \times 40z$

3) A box of cereal advertised having 24% more marshmallows. The original cereal had  $y$  cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?

A.  $y - 0.24$       B.  $y - 1.24$       C.  $100y + 0.24$       D.  $y + (0.24 \times y)$

4) Oliver drew a square with each side being exactly 6 centimeters long. If he wanted to make the square 13% larger which expression can he use to find the new sides length?

A.  $6 \times 1.13$       B.  $s - 1.13$       C.  $s - 0.13$       D.  $s - 13$

5) Joe was earning \$6 an hour before his raise. After his 5% raise he was making \$6.3 an hour. Which expression shows how his new hourly rate was calculated?

A.  $r - 5$       B.  $6 \times 1.05$       C.  $r - 1.05$       D.  $r - 0.05$

6) A sandwich shop was charging \$3.81 for a sandwich, but raised the price 9% making them cost \$4.15. Which expression shows how the new price was calculated?

A.  $3.81 \times 1.09$       B.  $s - 9$       C.  $s - 0.09$       D.  $s - 1.09$

7) Last year the price of a college textbook( $b$ ) was \$169. This year the price will be 22% higher. Which expression shows the difference in price from last year to this year?

A.  $b - 22$       B.  $b \times 0.22$       C.  $b - 1.22$       D.  $b - 0.22$

8) 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.  $z - 1.05$       B.  $z - 0.05$       C.  $0.05 \times 27z$       D.  $z - 5$

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

A.  $p - 0.06p$       B.  $p - 1.06$       C.  $100p + 0.06$       D.  $p - 0.06$

10) A store raised the price on watermelons 13%. The original price for each was  $X$  dollars. Which expression shows the new price of the watermelons?

A.  $X + (0.13 \times X)$       B.  $X - 0.13$       C.  $100X + 0.13$       D.  $X - 1.13$

1. **C**

2. **D**

3. **D**

4. **A**

5. **B**

6. **A**

7. **B**

8. **C**

9. **A**

10. **A**