

**Determine which expression is the correct answer.****Answers**

- 1) This years model of a cell phone is 15 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.  $w \times 0.15$       B.  $w \div 1.15$       C.  $w - 1.15$       D.  $w - 0.15$
- 2) Ned drew a square with each side being exactly 8 centimeters long. If he wanted to make the square 13% larger which expression can he use to find the new sides length?  
A.  $8 + 1.13$       B.  $8 \times 0.13$       C.  $8 \times 1.13$       D.  $8 + 0.13$
- 3) A mall kiosk needed to buy 21 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.  $21z - 0.05$       B.  $0.05 \times 21z$       C.  $21z + 1.05$       D.  $21z + 0.05$
- 4) An icecream bar was 732 calories. If they increased the size of the bar by 8% which expression can be used to find the new calorie count?  
A.  $732 + 1.08$       B.  $732 \times 1.08$       C.  $732 \times 0.08$       D.  $732 + 0.08$
- 5) A box of cereal advertised having 18% more marshmallows. The original cereal had  $y$  cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?  
A.  $y + (0.18 \times y)$       B.  $y \times 0.18$       C.  $y + 1.18$       D.  $y + 0.18$
- 6) Last year the price of a college textbook( $b$ ) was \$260. This year the price will be 23% higher. Which expression shows the difference in price from last year to this year?  
A.  $b - 0.23$       B.  $b \times 0.23$       C.  $b - 1.23$       D.  $b - 23$
- 7) 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.  $X \times 0.05$       B.  $X + (0.05 \times X)$       C.  $X + 1.05$       D.  $X + 0.05$
- 8) A house was on sell for \$30,920. If you wanted to offer 8% less than the asking price( $p$ ) which expression shows how much you should offer?  
A.  $p - 1.08$       B.  $p - 0.08$       C.  $p - 0.08p$       D.  $p \times 0.08$
- 9) 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.  $g - 0.02$       B.  $g \times 0.02$       C.  $g - 0.02g$       D.  $g - 1.02$
- 10) The regular price of a computer was 714 dollars, but over the weekend it'll be on sale for for 10 percent off. Which expression shows the difference in price from normal( $n$ ) to sale?  
A.  $n - 10$       B.  $n \times 0.1$       C.  $n - 0.1$       D.  $n - 1.1$

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3. \_\_\_\_\_
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5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

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