

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

- 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.  $8 \times 1.05$       B.  $8 \times 0.05$       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.  $b \times 0.21$       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.  $X + (0.09 \times X)$       D.  $X \times 0.09$
- 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.  $i \times 1.5$       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.  $647 \times 1.1$       D.  $647 \times 0.1$
- 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.  $0.2 \times 37z$       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.  $p \times 0.05$       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.  $y + (0.42 \times y)$       B.  $y + 0.42$       C.  $y \times 0.42$       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.  $0.14 \times 40z$       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.  $g \times 0.02$

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



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