

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

- 1) Last year the price of a college textbook(b) was \$209. This year the price will be 13% higher. Which expression shows the difference in price from last year to this year?  
A.  $b \times 0.13$                       B.  $b - 1.13$                       C.  $b - 0.13$                       D.  $b - 13$
- 2) A cell phone company dropped the prices on their phones by 8%. Which expression shows the new price of the phones(p)?  
A.  $p \times 0.08$                       B.  $p - 0.08p$                       C.  $p - 1.08$                       D.  $p - 0.08$
- 3) An icecream bar was 864 calories. If they increased the size of the bar by 7% which expression can be used to find the new calorie count?  
A.  $864 \times 0.07$                       B.  $864 + 1.07$                       C.  $864 \times 1.07$                       D.  $864 + 0.07$
- 4) George drew a square with each side being exactly 10 centimeters long. If he wanted to make the square 4% larger which expression can he use to find the new sides length?  
A.  $10 \times 0.04$                       B.  $10 \times 1.04$                       C.  $10 + 1.04$                       D.  $10 + 0.04$
- 5) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)  
A.  $g - 1.03$                       B.  $g - 0.03g$                       C.  $g - 0.03$                       D.  $g \times 0.03$
- 6) While clearing out some old inventory a store offered 20 percent off of any item(i). Which expression can be used to calculate the new cost of an item?  
A.  $i - 1.2$                       B.  $i \times 0.2$                       C.  $i - 0.2i$                       D.  $i - 0.2$
- 7) A mall kiosk needed to buy 45 new cell phone cases at z dollars a piece. Because they were buying so many they got 11% off the price. Which expression shows how much money they saved?  
A.  $45z + 1.11$                       B.  $45z - 0.11$                       C.  $0.11 \times 45z$                       D.  $45z + 0.11$
- 8) Joe was earning \$9 an hour before his raise. After his 5% raise he was making \$9.45 an hour. Which expression shows how his new hourly rate was calculated?  
A.  $9 + 1.05$                       B.  $9 \times 1.05$                       C.  $9 + 0.05$                       D.  $9 \times 0.05$
- 9) A sandwich shop was charging \$1.70 for a sandwich, but raised the price 7% making them cost \$1.82. Which expression shows how the new price was calculated?  
A.  $1.7 \times 0.07$                       B.  $1.7 \times 1.07$                       C.  $1.7 + 0.07$                       D.  $1.7 + 1.07$
- 10) A store raised the price on watermelons 11%. The original price for each was X dollars. Which expression shows the new price of the watermelons?  
A.  $X \times 0.11$                       B.  $X + 1.11$                       C.  $X + (0.11 \times X)$                       D.  $X + 0.11$

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

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