

TEST NAME: **7EE12-E**
TEST ID: **1697133**
GRADE: **07 - Seventh Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____

Class: _____

Date: _____

1. Which expression is equivalent to $5(x + 2) - 7(x + 2)$?

- A. $-2x - 4$
- B. $-2x + 24$
- C. $12x - 4$
- D. $12x + 24$

2. Expand the expression below.

$$6y\left(\frac{2}{3}x + 6k - \frac{1}{2}\right)$$

- A. $4xy + 6k - \frac{1}{2}$
- B. $4x + 36k - 3$
- C. $4xy + 36ky - 3y$
- D. $4xy + 36ky + 3y$

3. Tony scored n points in the first basketball game of the season. The expression below represents the total number of points that Tony scored in the first three basketball games of the season.

$$(n) + (2n) + (2n - 3)$$

Which expression is equivalent to the total number of points Tony scored in the first 3 games?

- A. $2n$
- B. $12n$
- C. $4n - 3$
- D. $5n - 3$

4. Which expression is equivalent to $-2(m - n + 2) - 0.5(2m - 6n)$?
- A. $-m - 7n + 2$
 - B. $-m + 5n - 4$
 - C. $-3m - 7n + 2$
 - D. $-3m + 5n - 4$
5. Which expression is equivalent to $-\frac{1}{3}\left(3x - \frac{1}{2}\right)$?
- A. $x - \frac{1}{6}$
 - B. $-x + \frac{1}{6}$
 - C. $-1\left(\frac{x}{3} + \frac{1}{2}\right)$
 - D. $-1\left(\frac{x}{3} + \frac{1}{6}\right)$
6. Which expression is equivalent to $3(4x + 10 \div 2 + 3)$?
- A. $12x + 2$
 - B. $12x + 8$
 - C. $12x + 24$
 - D. $12x + 6$
7. A gas grill is on sale for 40% off the original cost. The original cost is \$199. Sales tax is 6%. Which expression should be used to calculate the final cost of the gas grill?
- A. $199(0.40)(0.06)$
 - B. $199(0.60)(0.06)$
 - C. $199(0.60)(1.06)$

8. Joel spent \$90 at the grocery store before sales tax. Sales tax on food is 2%. Which expression would calculate the final price of Joel's groceries?
- A. $90 - 2$
 - B. $90 + 2$
 - C. $90(0.98)$
 - D. $90(1.02)$
9. Ice cream costs n dollars per scoop at an ice cream shop. The table below shows the number of scoops purchased by 3 different customers.

Customers	Scoops Bought
Person 1	3
Person 2	4
Person 3	1

Which expression represents the total amount, in dollars, of scoops bought?

- A. $3n \times 4n \times n$
 - B. $3n + 4n + 1$
 - C. $n \times 3 + 4 + 1$
 - D. $8n$
10. Julie purchased a pair of pants that originally cost \$50. The pants were discounted 20%, and sales tax is 5%. Which expression would calculate the total cost of the pants?
- A. $50(0.25)$
 - B. $50(0.75)$
 - C. $50(0.8)(0.95)$
 - D. $50(0.8)(1.05)$

11. Dylan is buying a book for \$8.99. Sales tax is 7%. Which expression would calculate the total cost of the book?
- A. $8.99(0.07)$
 - B. $8.99(0.93)$
 - C. $8.99(1.07)$
12. At a store, all televisions are on sale for 30% off. If x represents the regular price of a television, which expression could be used to calculate the sale price of a television?
- A. $x - 30$
 - B. $x - 70$
 - C. $0.3x$
 - D. $0.7x$
13. Alice wants to calculate the total cost for a dress. The dress costs \$53.99 and sales tax is 7%. Which expression represents how she could calculate the total cost?
- A. $53.99(0.07)$
 - B. $53.99(0.7)$
 - C. $53.99(1.07)$
 - D. $53.99(1.7)$
14. Jenna buys a book for \$12 and a DVD for \$15. DVD's are on sale for 20% off. Sales tax is 7%. Which expression will calculate the total cost of Jenna's purchases?
- A. $12 + 15 - 0.80 + 1.07$
 - B. $12 + 15(0.80)(1.07)$
 - C. $(12 + 15)(0.80)(1.07)$
 - D. $(12 + 15 \cdot 0.80)(1.07)$

15. Jason earns a monthly salary of m dollars. His salary is increased by 5%. Which expression represents Jason's new yearly salary?

- A. $12.6m$
- B. $12.05m$
- C. $1.05m$
- D. $0.6m$