Name: _____ Class: _____

1. A store is having a 25%-off sale on sweaters. Marion wants to purchase a sweater that has an original cost of $49.99. Which expression represents the final cost of the sweater if the store has a sales tax of 6.75%?

A 49.99 • 0.25 • 6.75

B 49.99 • 0.75 • 6.75

C 49.99 • 0.25 • 1.0675

D 49.99 • 0.75 • 1.0675

2. A family goes to a restaurant for dinner.

- The bill for their meal is $75 before sales tax.
- Sales tax is 7%.
- They leave a 15% tip.

Which expression will calculate the total bill for the family's meal?

A 75(0.07)(0.15)

B 75(0.93)(1.15)

C 75(1.07)(0.85)

D 75(1.07)(1.15)

3. Ingrid is buying a pair of pants with an original cost of c dollars. The pants are on sale for 15% off their original cost. Which two calculations could Ingrid perform in order to find the amount she needs to spend?

A $c + 0.15c$ and $1.15c$

B $c + 0.15$ and $1.15c$

C $c - 0.15$ and $0.85c$

D $c - 0.15c$ and $0.85c$

4. At a store, a dress that originally costs $40 was marked down 25%. Lindsey has a coupon for an additional 20% off the dress. Sales tax is 6%. Which expression will calculate the total amount Lindsey will pay for the dress?

A (40)(0.60)(1.06)

B (40)(0.55)(1.06)

C (40)(0.25)(0.2)(1.06)

D (40)(0.25)(0.2)(0.06)

5. It costs Maria $6.00 to travel the toll roads from her house to her mother's house. The cost of the toll roads will be increasing by 15%. Which expression can be used to find the new cost to travel the toll roads?

A 0.15(6) **B** 0.85(6) **C** 1.15(6) **D** 15(6)

6. 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 • 0.80)(1.07)

7. Ellie works at a store where she gets a 5% discount on anything she buys. She wants to buy a chair that has a regular price of $225. Which expression can Ellie use to calculate the price of the chair with her discount?

A 225(0.05) **B** 225(0.95) **C** 225(1.05) **D** 225(5)

8. Regina charges *c* dollars per hour to babysit. If she increases her rate by 15%, which expression represents her new rate, in dollars per hour?

A $c + 0.15$ **B** $c + 15$ **C** $c + 0.15c$ **D** $c + 15c$

9. A ticket to the school dance increases by 20% from the original price, *p*. James and Matt want to determine the new price. James uses the expression 1.20*p.* Matt uses the expression $p+0.20p$. Which statement best describes these expressions?

A James uses the correct expression, but Matt does not.

B Matt uses the correct expression, but James does not.

C Both Matt and James use correct expressions.

D Neither Matt nor James uses correct expressions.

10. Raj and Eric went to lunch. Raj's total lunch bill was $9.53. This was 14% higher than Eric's lunch bill. Which expression represents the amount of Eric's lunch bill?

A 9.53 – 0.14 **B** 9.53 ÷ 0.86 **C** 9.53 • 0.86 **D** 9.53 ÷ 1.14

11. The cost of a Midnight Madness movie ticket, *c*, is reduced by $\frac{2}{5}$ of the original cost, to a cost of $\frac{3}{5}c$. Which expression is equivalent to the new cost?

A $1-\frac{3}{5}c$ **B** $c-\frac{3}{5}c$ **C** $1-\frac{2}{5}c$ **D** $c-\frac{2}{5}c$

12. Kelly went to a store to purchase a coffee pot. She will use a coupon for 20% off. She can calculate the cost before sales tax using the following expression, where c represents the original cost of the coffee pot.

$$c - 0.2c$$

Which other expression could Kelly use to calculate her cost before sales tax?

A $0.8c$ **B** $1.2c$ **C** $1.8c$ **D** $80c$

13. The original price, p, of a single scoop of ice cream has increased by 7%. The new price can be represented as $1.07p$. Which expression is also equivalent to the new price?

A $1 + 7p$ **B** $p + 0.7p$ **C** $1 + 0.07p$ **D** $p + 0.07p$

14. Mr. Hurst's house increased in value to \$185,400 one year after he bought it. The annual rate of increase was 3%. Which expression would calculate the initial value of the house?

A \$185,400 × 0.97 **C** \$185,400 × 1.03

B \$185,400 ÷ 0.97 **D** \$185,400 ÷ 1.03

15. A store is having a 20%-off sale on all pairs of shoes. Kurt wants to buy a pair of shoes that have a regular price of x dollars. The sales tax is 7%. Which expression represents the final price of the shoes?

A $x(1.27)$ **C** $x(1.2)(0.93)$

B $x(0.87)$ **D** $x(0.8)(1.07)$

16. Allen is buying a video game that originally costs \$49. He has a 10%-off coupon and will have to pay a 6% sales tax. Which expression will calculate the total amount Allen will pay for the video game?

A (49)(0.9)(1.06) **C** 49(0.1)(1.06)

B (49)(0.9)(0.06) **D** 49(0.1)(0.06)