

Name:

ANSWERS!

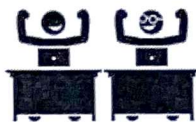
Class:



Communication



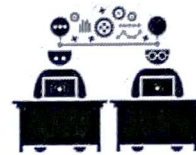
Successful Partnership



Encouragement



Solving Problem Together



Collaboration

$$\text{Original Amount} \left(1 + / - \begin{array}{l} \text{Decimal} \\ \text{Percent} \\ \text{Change} \end{array} \right) = \text{New Amount}$$

Question 01

Carla is buying a movie ticket. The movie ticket costs \$7.50 and Carla must pay an 8% tax. She wants to calculate the final price. What equation models this situation?

- $7.5(1 + 8) = \text{Final Price}$
- $7.5(1 + 0.8) = \text{Final Price}$
- $7.5(1 + 0.08) = \text{Final Price}$
- $7.5(1 - 0.08) = \text{Final Price}$

$$8\% = 0.08$$

tax increases the price

Question 02

A pair of pants normally costs \$24.50 but is on sale for "20% off". You want to calculate the discounted sale price. What equation models this situation?

- $24.5(1 + 0.2) = \text{Sale Price}$
- $24.5(1 + 0.02) = \text{Sale Price}$
- $24.5(1 - 0.2) = \text{Sale Price}$
- $24.5(1 - 0.02) = \text{Sale Price}$

$$20\% = 0.2$$

$$\text{Original Amount} \left(1 + / - \begin{array}{l} \text{Decimal} \\ \text{Percent} \\ \text{Change} \end{array} \right) = \text{New Amount}$$

Question 03

A car is currently valued at \$8,000. The value of the car is expected to decrease by 10% next year. What is the expected value of the car next year?

$$10\% = 0.1$$

- $8,000(1 + 0.1) = \text{Value Next Year}$
- $8,000(1 + 0.01) = \text{Value Next Year}$
- $8,000(1 - 0.1) = \text{Value Next Year}$
- $8,000(1 - 0.01) = \text{Value Next Year}$

Question 04

A magazine costs m dollars. Tax is 7.5%

What expression is equivalent to the final price? Select all that apply.

- $m + 0.75m$
- $1 + 0.075m$
- $1.075m$
- $m + 1.075m$
- $m + 0.075m$

Question 05

For the question above, which of the following is a correct statement? Select all that apply.

- The amount of the tax must be 75 cents
- The amount of the tax is "0.075" dollars
- The amount of the tax is "0.075m" dollars
- If the magazine, without tax, cost \$4, the final price is \$4.30
- If the magazine, without tax, cost \$6, the final price is \$6.45
- If the magazine, without tax, cost \$1, the final price is \$1.75

$$4 \times 1.075 = 4.3$$

$$6 \times 1.075 = 6.45$$

NO! NOT 75%
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