

Which of the following is equal to

$$7 + 3(4^2 - 6 - 2) ?$$

- a. $7 + 3(8 - 6 - 2)$
- b. $10(16 - 6 - 2)$
- c. $7 + 3(16 - 4)$
- d. $7 + 24$

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What would happen to the value of x in the equation below if the value of y doubles?

$$3y = x$$

- a. The value of x would double.
- b. The value of x would be 3 times as great.
- c. The value of x would be squared.
- d. The value of x would be 6 times as great.

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What is the product when the fractions below are multiplied together?

$$\frac{1}{3} \cdot \frac{4}{7}$$

- a. $\frac{12}{7}$
- b. $\frac{4}{21}$
- c. $\frac{4}{10}$
- d. $\frac{4}{12}$

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A car worth \$12,300 in 2005 cost \$16,500 in 2004 what was the percent of decrease? Show all work.

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Evaluate the following expression:

$$\frac{5^3 - 4^3 + 4(2^3) + 3^2 + 2^3}{2(3)^2}$$

- a. 16.39
- b. 13.66
- c. 5.76
- d. 6.11

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The original price for a sweater is \$68.00. There is a 20% discount and 8.4% sales tax. What is the final price of the sweater? Show all work.

- a. \$58.97
- b. \$48.69
- c. \$60.12
- d. \$49.83

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