Chapter 9 Closure

CL 9-93. Find the area and circumference of a circle with a radius of 6.5 cm.

CL 9-94. Find the surface area and volume of each solid below.
   a. All angles are right angles.
   b. Right prism with base area = 48 cm²

CL 9-95. Find the surface area and volume of a prism with a square base, sides of 8 inches, and a height of 12 inches.

CL 9-96. Jamie bought a music player on sale for $65. The original price was $80. What percent discount did she receive?
Manuela found a great deal on pens at 3 for $0.99. It was such a good deal that she decided to buy two-dozen pens. How much did she pay for all of the pens?

Shawn’s science class has a ratio of 4:5, girls to boys. [NOT multiple choice]

a. What is the ratio of boys to girls?

b. What is the ratio of boys to total students?

c. What percent of the class is boys?

d. What fraction of the class is girls?

Casey was building a rectangular pen for his pigs. He has 62 feet of fencing. The length of his pen is 9 feet longer than the width. Write and solve an equation to find the dimensions of the pen.

Solve the following equations.

a. \( 12 = \frac{6}{7}x \)

b. \( 3x + (-4) = 2x + 9 \)

c. \( 3x - 8 = 4x + (-2) \)

d. \( 2(x - 3) = 1 - 3x \)

e. \( \frac{38}{6} = \frac{x}{18} \)

f. \( \frac{9}{x} = \frac{85}{10} \)