Grade 8

Student Name: _____

Algebra

1. Evaluate.

   a. $a - 4b + 5c$, when $a = 3$, $b = -1$, and $c = -2$. _____

   b. $5 = 3n - 6$, $n =$ _____ c. $3x + 12 = 5x - 2$, $x =$ _____

Integers

1. Solve.

   a . $(-4) - 3 + (-2) =$ _____ b. $(-8) + 15 \div (-3) + 7 =$ _____

   c. $\frac{(-6)(8-2)}{-4} =$ _____

Grade 8

tutor doctor
How learning hits home.

Solving Problems

1. A factory produces 900 items per week at a unit cost of $75. New equipment is installed that increases the productivity by 12% and reduces the production costs by 16%.

    a. What is the new production rate?

    _____

    b. What is the new unit cost?

    _____

Fractions

1. Solve.

    a. $\frac{5}{8} + \frac{6}{4} - \frac{1}{3} =$

    b. $3\frac{3}{5} - 1\frac{5}{6} + \frac{7}{10} =$

2. Write each fraction as a decimal and a percentage.

    a. $\frac{4}{5} =$ _____, _____

    b. $\frac{15}{6000} =$ _____, _____

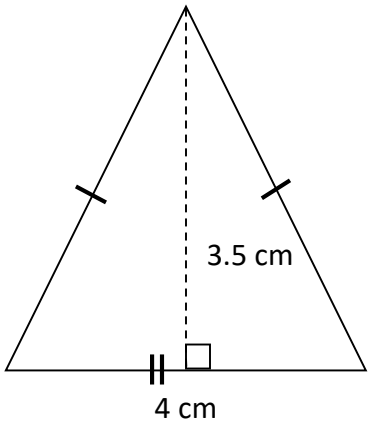
Grade 8

Geometry

1. Calculate the area of the triangle, and approximate the length of the hypotenuse.

   a. Area = _____

   b. Hypotenuse = _____



2. Calculate the volume.

   a. Volume = _____