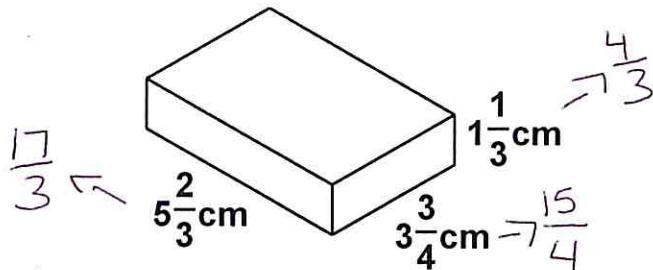


NAME: _____ DATE: _____ HOUR: _____

Fractions and Substitution Test**DIRECTIONS:** Calculate the volume and surface area of the following prism.

$$V = lwh \text{ so, } V =$$

$$V = \frac{17}{3} \cdot \frac{15}{4} \cdot \frac{4}{3} = \frac{1020}{36}$$

$$1020 \div 36 = 28.\overline{3}$$

$$\frac{1020}{36} = 28\frac{12}{36} \div \frac{12}{12} = 28\frac{1}{3}$$

$$\text{Volume} = 28\overline{3} \text{ cm}^3 \text{ or } 28\frac{1}{3} \text{ cm}^3$$

DIRECTIONS: Calculate the following:

$$3\frac{1}{5} - 2\frac{1}{5} = 1\frac{0}{5} = 1$$

$$\frac{4}{5}(1\frac{1}{2})$$

$$\frac{4}{5} \cdot 1\frac{1}{2}$$

$$\frac{4}{5} \cdot \frac{3}{2} = \frac{12}{10} = 1\frac{2}{10} \div \frac{2}{2} = 1\frac{1}{5}$$

DIRECTIONS: Evaluate where $x=6$.

$$2x-4$$

$$\frac{x}{2}$$

$$2 \cdot 6 - 4$$

$$\frac{6}{2}$$

$$12 - 4$$

$$\textcircled{3}$$

$$\textcircled{8}$$

$$SA = 2lh + 2wh + 2lw$$

$$SA = 2 \cdot \frac{17}{3} \cdot \frac{4}{3} + 2 \cdot \frac{15}{4} \cdot \frac{4}{3} + 2 \cdot \frac{17}{3} \cdot \frac{15}{4}$$

$$SA = \frac{136}{9} + \frac{120}{12} + \frac{510}{12}$$

$$SA = \frac{544}{36} + \frac{360}{36} + \frac{1530}{36}$$

$$SA = \frac{2434}{36}$$

$$2434 \div 36 = 67.6\overline{1}$$

$$SA = 67\frac{22}{36} \div \frac{2}{2} = 67\frac{11}{18}$$

$$\text{Surface Area} = 67\frac{11}{18} \text{ cm}^2 \text{ or } 67.6\overline{1} \text{ cm}^2$$

$$\begin{array}{c} 2\frac{1}{3} + 3\frac{2}{6} \\ \downarrow \quad \downarrow \\ 2\frac{2}{6} + 3\frac{2}{6} \end{array} \qquad LCM = 6$$

$$5\frac{4}{6} \text{ Simplify by } \frac{2}{2}$$

$$5\frac{4}{6} \div \frac{2}{2} = 5\frac{2}{3}$$

$$x^2 - \frac{(2x)}{3}$$

$$6^2 - \frac{(2 \cdot 6)}{3}$$

$$6^2 - \frac{12}{3}$$

$$\frac{6^2 - 4}{36 - 4} = 32$$