Name:_____Mine!_____   Date:_____

1.) Write each of the mixed number below as fractions greater than one, and the fractions greater than one as mixed numbers.

a. $\frac{42}{5}$ b. $3\frac{3}{7}$ c. $\frac{28}{11}$ d. $2\frac{7}{15}$

$8\frac{2}{5}$ $\frac{24}{7}$ $2\frac{6}{11}$ $\frac{37}{15}$

2.)   Solve each problem by writing an appropriate numerical expression and then calculating the result.

a.   A recipe for brownies calls for $\frac{3}{8}$ cup of sugar and the recipe makes 12 brownies. What fraction of a cup is in each brownie?

$\frac{\cancel{3}}{8} \cdot \frac{1}{\cancel{12}4} = \frac{1}{32}$ c. sugar

b.   A jogger is running around a $\frac{3}{4}$ mile track and is $\frac{2}{3}$ around the track. How far has the jogger traveled?

$\frac{\cancel{3}}{\cancel{4}_2} \cdot \frac{\cancel{2}}{\cancel{3}_1} = \frac{1}{2}$

3.)   Mr. Jones feeds his big cat $\frac{1}{3}$ of a can of cat food and he feeds his small cat half that amount.

a.   How much of a can does he feed his small cat? $\frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$ of a can

b.   How much of a can does he feed both cats? $\frac{1}{3} + \frac{1}{6} = \frac{2}{6} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$ can

4.)   Multiply. <u>Do not use a calculator.</u>

a. $\frac{1}{3} \cdot \frac{1}{9} = \frac{1}{27}$ b. $\left(1\frac{1}{4}\right) \cdot \frac{4}{5}$ c. $\frac{\cancel{1}\cancel{3}}{\cancel{3}\cancel{8}_2} = \frac{1}{2}$

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

5.)   Compute. Show your work.

a. $17.6 + 3.4$ b. $12.0 - 3.6$

21.0

c. $(3.2)(1.6)$

$$\begin{array}{r} 3.2 \\ \underline{1.6} \\ 192 \\ \underline{320} \\ 5.12 \end{array}$$

d. $(3.5)(1.1)$

$$\begin{array}{r} 12.0 \\ -\underline{3.6} \\ 8.4 \end{array}$$

$$\begin{array}{r} 3.5 \\ \underline{1.1} \\ 3\ 5 \\ \underline{3\ 5} \\ 3.85 \end{array}$$