

1. Multiply the following reduce (cancel values) if possible:

a.  $(x/6) * (t/h)$

$$\frac{x}{6} \cdot \frac{t}{h}$$

$$\boxed{\frac{xt}{6h}}$$

b.  $(450/u) * (c/n)$

$$\frac{450}{u} \cdot \frac{c}{n}$$

$$\boxed{\frac{450c}{un}}$$

c.  $(g/c) * (c/r)$

$$\frac{g}{c} \cdot \frac{c}{r} =$$

$$\boxed{\frac{g}{r}}$$

d.  $(45/f) * ((f*t)/c)$

$$\frac{45}{f} \cdot \frac{f \cdot t}{c}$$

$$\boxed{\frac{45t}{c}}$$

e.  $(c/v) * (v/5456)$

$$\frac{c}{v} \cdot \frac{v}{5456}$$

$$\boxed{\frac{c}{5456}}$$

2. Know how to find an absolute value

3. Divide the following reduce (cancel values) if possible:

a.  $(x/j) / ((64/h))$

$$\frac{x}{j} \cdot \frac{h}{64}$$

$$\boxed{\frac{x \cdot h}{j \cdot 64}}$$

b.  $(n/j) / (n/m)$

$$\frac{n}{j} \cdot \frac{m}{n}$$

$$\boxed{\frac{m}{j}}$$

c. Be careful  $(n/j) / (m/m)$

$$\frac{n}{j} \cdot \frac{m}{m} \left(\frac{1}{1}\right)$$

$$= \boxed{\frac{n}{j}}$$

d.  $(678 \div t) / (b \div n)$

$$\frac{678}{t} \times \frac{n}{b}$$

$$\boxed{\frac{678n}{tb}}$$

e.  $(45 \div p) \div (p \div q)$

$$\left(\frac{45}{p}\right) \times \frac{q}{p} =$$

$$\boxed{\frac{45q}{p^2}}$$

4. Make a common denominator for the following:

a.  $(2 \div x) + (3/Y)$

$$\frac{2}{x} + \frac{3}{y} = \frac{2y}{xy} + \frac{3x}{yx} =$$

$$\boxed{\frac{2y + 3x}{xy}}$$

b.  $(y/h) + (6/h)$

$$\frac{y}{h} + \frac{6}{h} =$$

$$\boxed{\frac{y+6}{h}}$$

c.  $(b \div y) - (g \div 8)$

$$\left(\frac{8 \cdot b}{8 \cdot y}\right) - \left(\frac{g \cdot y}{8 \cdot y}\right) = \frac{8b}{8y} - \frac{gy}{8y}$$

$$\boxed{\frac{8b - gy}{8y}}$$

$$\frac{b}{y} - \frac{g}{8}$$

$$\frac{43}{r} - \frac{b}{c}$$

d.  $(43/r) - (b/c)$

$$\left(\frac{c \cdot 43}{c \cdot r}\right) - \left(\frac{b \cdot r}{c \cdot r}\right)$$

$$\frac{43c}{cr} - \frac{br}{cr} =$$

$$\boxed{\frac{43c - br}{cr}}$$

e.  $(321/c) - (54/y)$

$$\frac{321}{c} - \frac{54}{y}$$

$$\boxed{\frac{321y - 54c}{cy}}$$

5. Change the following into a percent:

a. 567  $56700\%$

b. 0.657  $65.7\%$

c. 153.23  $15323\%$

d. 4566.01  $456601\%$

e. .00012  $.012\%$

6. Change the following into a number:

a. 0.65%  $.0065$

b. 0.001%  $.00001$

c. 5600.01%  $56.0001$

d. 45%  $.45$

e. 345.0843%  $3.450843$

7. Solve the following:

a. 5 is what percent of 16

$$\frac{5}{16} = .3125$$

$$\boxed{31.25\%}$$

b. 50% of 100  $\rightarrow 50$

c. 4% of 123

$$\frac{x}{123} = .04$$

$$\boxed{x = 4.92}$$

d. 45 is what percent of 3

$$\frac{45}{3} = 15$$

$$\boxed{1500\%}$$