Ratios

1. Write the following ratios as reduced fractions.

   a) 10 to 24

   b) $\frac{5}{3}$ to $\frac{7}{6}$

   c) 0.4 to 1.8

   d) 1.6 to 3.2

   e) $\frac{3}{5}$ to 0.6

   f) 0.5 to 0.45

Ratios   No Calculators!!

1. Write the following ratios as reduced fractions.

a) 10 to 24

$$\frac{10}{24}$$

$$\frac{10/2}{24/2}$$

$$\boxed{\frac{5}{12}}$$

b) $\frac{5}{3}$ to $\frac{7}{6}$

$$\frac{\frac{5}{3}}{\frac{7}{6}} = \frac{5}{3} \div \frac{7}{6}$$

$$= \frac{5}{\cancel{3}} \cdot \frac{\cancel{6}^{2}}{7}$$

$$= \boxed{\frac{10}{7}}$$

c) 0.4 to 1.8

$$\frac{0.4}{1.8} \quad LCD = 10$$

$$\frac{10(0.4)}{10(1.8)}$$

$$\frac{4}{18} = \boxed{\frac{2}{9}}$$

d) 1.6 to 3.2

$$\frac{1.6}{3.2} \quad LCD = 10$$

$$\frac{10(1.6)}{10(3.2)}$$

$$\frac{16}{32} = \boxed{\frac{1}{2}}$$

e) $\frac{3}{5}$ to 0.6

$$\frac{\frac{3}{5}}{0.6} \quad LCD = 10$$

$$\frac{\overset{2}{\cancel{10}}\left(\frac{3}{\cancel{5}}\right)}{10(0.6)}$$

$$\frac{6}{6} = \boxed{1}$$

f) 0.5 to 0.45

$$\frac{0.5}{0.45} \quad LCD = 100$$

$$\frac{100(0.5)}{100(0.45)}$$

$$\frac{50/5}{45/5}$$

$$\boxed{\frac{10}{9}}$$