

### 4.6 Dividing by Decimals

$$\text{Dividend} \div \text{Divisor} = \text{Quotient}$$

$$\text{Divisor} \overline{) \begin{array}{l} \text{Quotient} \\ \text{Dividend} \end{array}}$$

$$8 \overline{) 3.2} \\ \underline{32} \\ 0$$

$$0.8 \overline{) 3.2}$$

We cannot have a decimal place in the divisor

$$8 \overline{) 32.} \\ \underline{32} \\ 0$$

$$16 \overline{) 0.88} \qquad 16 \overline{) 8.80} \\ \underline{80} \downarrow \\ 80 \\ \underline{80} \\ 0$$

$$0.08 \overline{) 0.0375} \qquad \begin{array}{r} \downarrow \\ 0.46875 \\ 8 \overline{) 3.750} \\ \underline{32} \downarrow \\ 55 \downarrow \\ 48 \downarrow \\ 70 \\ \underline{64} \end{array}$$

0.47

### Reciprocal (flipped fraction)

$$0.32 \quad \frac{32}{100} \quad \frac{100}{32} \quad 3.125$$

$$32 \overline{) 100.000} \qquad \frac{3.125}{3 \overline{) 1000}}$$

$$\begin{array}{r} 3.125 \\ \underline{96} \\ 40 \\ \underline{32} \\ 80 \\ \underline{64} \\ 160 \\ \underline{160} \\ 0 \end{array}$$

$$5.65 \quad \frac{565}{100} \quad \frac{100}{565} \quad \frac{565}{3955}$$

$$565 \overline{) 100.000} \qquad \frac{0.176}{\begin{array}{r} 565 \\ \underline{3455} \\ 550 \\ \underline{3950} \\ 0 \end{array}}$$

0.18

P200-201

2-40 even

42, 43