

9.7 Dividing Decimals by Whole Numbers

$$1.62 \div 3 = 0.54$$

$$\begin{array}{r} 0.54 \\ 3 \overline{) 1.62} \\ \underline{-15} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

divided $\overline{3}$ ← divisor

$$175 \div 4 = 43.75$$

$$\begin{array}{r} 43.75 \\ 4 \overline{) 175.00} \\ \underline{-16} \\ 15 \\ \underline{-12} \\ 30 \\ \underline{-28} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

Fraction to decimal

numerator $\overline{3}$ "top dog in the doghouse"
denominator $\overline{4}$

$$\begin{array}{r} 0.75 \\ 4 \overline{) 3.00} \\ \underline{-28} \\ 20 \\ \underline{-20} \\ 0 \end{array} \quad \frac{3}{4} = 0.75$$

$$\begin{array}{r} 0.4 \\ 5 \overline{) 2.0} \\ \underline{-20} \\ 0 \end{array} \quad 0.4 = \frac{4}{10} = \frac{2}{5}$$

$$\frac{1}{3} = 0.\overline{333} \quad \begin{array}{r} 0.333 \\ 3 \overline{) 1.000} \\ \underline{-9} \\ 10 \\ \underline{-9} \\ 10 \\ \underline{-9} \\ 1 \end{array}$$

$$\frac{4}{9} = 0.\overline{4}$$

$$\frac{4}{9} = 0.\overline{444} \quad \begin{array}{r} 444 \\ 9 \overline{) 4.000} \\ \underline{-36} \\ 40 \\ \underline{-36} \\ 40 \end{array}$$