

4-6 Dividing by Decimals

1) $8.84 \div 3.4$

$$\begin{array}{r} 3.4 \overline{) 8.84} \end{array}$$

$$\begin{array}{r} 2 2.6 \\ 3.4 \overline{) 8.84} \\ \underline{-68} \\ 204 \\ \underline{-204} \\ 0 \end{array}$$

2.6

mult. by
a power
of 10

* make divisor a whole #
move dec. in divisor
to the rgt. (Sweep)

* move dec. the same
of times in dividend

* bring dec. straight
up into quotient

$$2) 15.176 \div 0.028$$

3 sweeps
x 1000

$$\begin{array}{r} 0.028 \overline{) 15.176} \\ \underline{-140} \\ 117 \\ \underline{-112} \\ 56 \\ \underline{-56} \\ 0 \end{array}$$

542

$$3) 8.873 \div 1.9$$

$$\begin{array}{r} 04.67 \\ 1.9 \overline{) 8.873} \\ \underline{-76} \\ 127 \\ \underline{-114} \\ 133 \\ \underline{-133} \\ 0 \end{array}$$

4) $25.16 \div 0.068$

$$\begin{array}{r} 0.068 \overline{) 251.60} \\ \underline{-204} \\ 476 \\ \underline{-476} \\ 000 \\ \underline{-000} \\ 0 \end{array}$$

370

4-7 Zeros in the Quotient

* Make sure you have a # above every # in the dividend

* If the divisor "doesn't go", must put a zero.

Round to the nearest hundredth.

1) $12 \overline{) 24320}$

$$\begin{array}{r} 2026 \\ \underline{24} \\ 03 \\ \underline{-03} \\ 32 \\ \underline{-24} \\ 80 \\ \underline{-72} \\ 8 \end{array}$$

≈ 203

2) $0301 \overline{) 7525000}$

$$\begin{array}{r} 250 \\ \underline{75} \\ 02 \\ \underline{-02} \\ 25 \\ \underline{-25} \\ 0 \end{array}$$

4) $4 \overline{) 0020.255} \approx 20.26$

$$\begin{array}{r}
 4 \overline{) 0020.255} \\
 \underline{-822} \\
 105 \\
 \underline{-105} \\
 2280 \\
 \underline{-2055} \\
 2250 \\
 \underline{-2055} \\
 195
 \end{array}$$