

Name: Key

5th Grade Notes 6.11 Divide Decimals by Whole Numbers p. 443

1. If the divisor is a whole number, divide normally. Make sure to keep the places lined up.
2. When you're done dividing, put the dec. point in the quotient, lining it up with the decimal point in the dividend.
3. If you have a remainder, you need to keep dividing. Put a zero in the dividend at the end and then bring down and keep dividing until you don't have a remainder.
4. Check by multiplying: quotient times divisor equals dividend.

Ex: $8.4 \div 2$

$$\begin{array}{r} 4.2 \\ 2 \overline{) 8.4} \\ \underline{-8} \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

line up the quotient
dec. pt. w/
the dividend's
dec. pt.

check!

$$\begin{array}{r} 4.2 \\ \times 2 \\ \hline 8.4 \checkmark \end{array}$$

Ex: $6.54 \div 12$

$$\begin{array}{r} 0.545 = .545 \\ 12 \overline{) 6.540} \\ \underline{-60} \\ 48 \\ \underline{-48} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

remainder is zero - you can stop

Done, nothing to bring down, so add a zero

at the end of the dividend

and bring down,

then keep dividing.

Ex: $9.3 \div 15$

$$\begin{array}{r} 0.62 = .62 \\ 15 \overline{) 9.30} \\ \underline{-90} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

Check:

$$\begin{array}{r} .62 \\ \times 15 \\ \hline 310 \\ +620 \\ \hline 9.30 \checkmark \end{array}$$