

2.6 (pg. 94) Division with Decimals



Step 1

Write the problem correctly!

$$\text{Ex. } 3.5 \div 1.5 =$$

$$1.5 \overline{)3.5} = \frac{3.5}{1.5}$$

Dividend goes in box!

Divisor

Read as... "3.5 divided by 1.5"



Step 2

If the **divisor** has **NO** decimal point, bring the decimal point in your **dividend** straight up!

$$3 \overline{) 1.6}$$

$$14 \overline{) 37.8}$$



Step 3

If the divisor **HAS** a decimal point, then move it all the way to the **right**...

Ex. $4.3 \overline{) 17.8}$

$5.13 \overline{) 89.743}$

...**THEN** move the decimal in your dividend to the right, the same number of times you did in the divisor.

Ex. $43 \overline{) 178}$

$513 \overline{) 89743}$

**SUGAR GLIDER
IN THE HOUSE!**

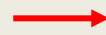


Ex.

$$\frac{1}{3}$$



$$\begin{array}{r} \cdot 3 \ 3 \ 3 \ \dots \\ 3 \overline{) 1 \cdot 0 \ 0} \\ \underline{ 9} \\ 1 \ 0 \end{array}$$

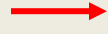


$$0.\overline{3}$$

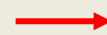


Ex.

$$\frac{7}{11}$$



$$\begin{array}{r} \cdot 6 \ 3 \ 6 \ 3 \ 6 \ 3 \ \dots \\ 11 \overline{) 7 \cdot 0 \ 0} \\ \underline{ 6 \ 6} \\ 4 \ 0 \\ \underline{ 3 \ 3} \\ 7 \end{array}$$



$$0.\overline{63}$$

This is an example of a **Repeating Decimal**. You place a line above the number(s) that repeat themselves.