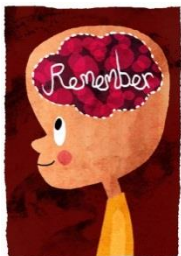


~ Long Division ~

The Vocabulary:

$$\begin{array}{r}
 \text{quotient} \rightarrow 5.3 \\
 \text{divisor} \rightarrow 3 \overline{) 16.0} \\
 \text{dividend} \nearrow 15 \quad \downarrow \\
 \text{remainder} \rightarrow 10 \\
 \hline
 - 9 \\
 \hline
 1
 \end{array}$$

* If the remainder is not zero, add a decimal and a zero to the dividend. Divide until the remainder is zero or the decimal repeats.



- The purpose of division is to determine how many times the *divisor* fits *into* the *dividend*
- Division is the opposite of multiplication. To "undo" or check your answer, you can multiply it by the divisor!

Example:

Divide:	$ \begin{array}{r} 2 \\ 3 \overline{) 75} \\ \hline \end{array} $ <p>3 goes into 7 2 times... with some extra!</p>
Multiply:	$ \begin{array}{r} 2 \\ 3 \overline{) 75} \\ \underline{6} \\ \hline \end{array} $ <p>$2 \times 3 = 6$</p>
Subtract:	$ \begin{array}{r} 2 \\ 3 \overline{) 75} \\ \underline{-6} \\ \hline 1 \end{array} $
Bring Down:	$ \begin{array}{r} 2 \\ 3 \overline{) 75} \\ \underline{-6} \\ \hline 15 \end{array} $
Repeat:	$ \begin{array}{r} 25 \\ 3 \overline{) 75} \\ \underline{-6} \\ \hline 15 \\ \underline{-15} \\ \hline 0 \end{array} $ <p>$15 \div 3 = 5$ $5 \times 3 = 15$</p>

Now YOU Try!!

1) $6915 \div 15$

2) $30 \overline{) 57,900}$

3) Scarlett has \$18.75 to purchase goody bags for her party. If each bag costs \$1.25, how many can she buy?

~ Long Division ~

The Vocabulary:

quotient → 5.3

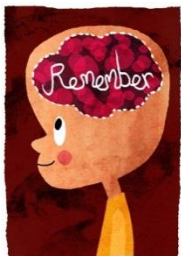
divisor → 3

dividend → 16.0

remainder → 10

$$\begin{array}{r} 5.3 \\ 3 \overline{) 16.0} \\ \underline{15} \\ 10 \\ \underline{9} \\ 1 \end{array}$$

* If the remainder is not zero, add a decimal and a zero to the dividend. Divide until the remainder is zero or the decimal repeats.



- The purpose of division is to determine how many times the *divisor* fits *into* the *dividend*
- Division is the opposite of multiplication. To "undo" or check your answer, you can multiply it by the divisor!

Example:

Divide:

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2 times...
with some extra!

Multiply:

$$\begin{array}{r} 2 \\ 3 \overline{) 75} \\ \underline{6} \end{array}$$

$2 \times 3 = 6$

Subtract:

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Bring Down:

$$\begin{array}{r} 2 \\ 3 \overline{) 75} \\ \underline{-6} \\ 15 \end{array}$$

Repeat:

$$\begin{array}{r} 25 \\ 3 \overline{) 75} \\ \underline{-6} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

$15 \div 3 = 5$

$5 \times 3 = 15$

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