Divide Decimals by Whole Numbers
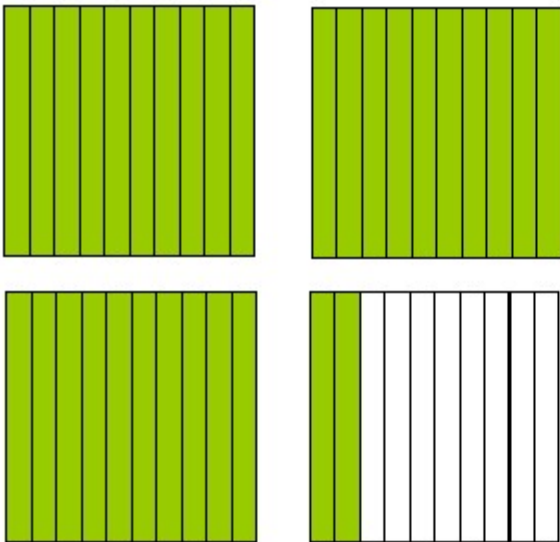
Find 3.2 ÷ 2
Estimate. 2 ÷ 2 = 1
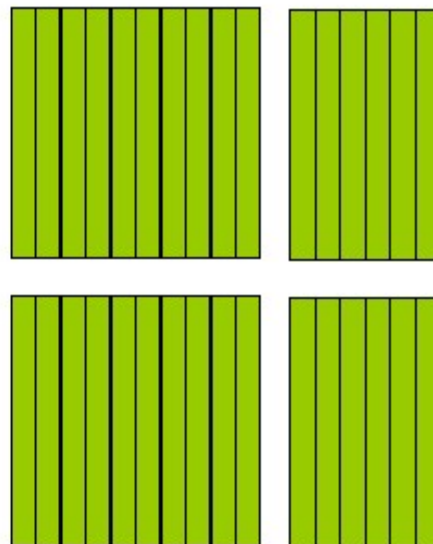You can divide by using a model.

STEP 1

Shade decimal models to show 3.2.

STEP 2

Divide the model into 2 groups of the same size.

To divide a decimal number by a whole number follow the steps listed below

STEP 1
Write the decimal point of the quotient above the decimal point of the dividend.

$$2\overline{)3.2}$$

STEP 2
Divide as you would divide whole numbers.

$$
\begin{array}{r}
1.6 \\
2\overline{)3.2} \\
\underline{2} \\
12 \\
\underline{12} \\
0
\end{array}
$$

So, 3.2 ÷ 2 = 1.6

Examples:

A- Divide. Check by multiplying.

$$
\begin{array}{r}
4.1 \\
1)4\overline{)16.4} \\
\underline{-16} \\
0\ 4 \\
\underline{-4} \\
0
\end{array}
$$

➜ 4.1
× 4
16.4

$$
\begin{array}{r}
2.3 \\
2)\ 24\overline{)55.2} \\
\underline{-48} \\
72 \\
\underline{-72} \\
00
\end{array}
$$

➜ 2.3
× 24
92
+460
55.2