Divide Decimals by Whole Numbers and by Decimals

Decimal Division

If a decimal's in the house.

4)6.4   raise it to
                     the roof!

$4\overline{)6.4}$ 64 ÷ 4 = 16

If a decimal's on the side

Slide   Slide
12)36   12)3.6

MAY NEED TO ANNEX ZEROES

Note: Some problems may instruct you to round to a certain place value if needed. In money problems, only need to divide to the thousandths place. Then round to the nearest hundredth. If answer is $13.365, it would be $13.37

EXAMPLES:

7.5 ÷ 3   2.5
$3\overline{)7.5}$

(2.5)
-6
15
-15
0

3.49 ÷ 4   .8725
$4\overline{)3.4900}$

(0.8725)
-32
29
-28
10
-8
20

8.424 ÷ 0.36   23.4
$0.36\overline{)8.424}$

(23.4)
-72
122
-108
144
-144
0

0.0063 ÷ 0.007   .9
$0.007\overline{)0.0063}$

(0.9)
-63
0

64 ÷ 0.8

$$\boxed{80}$$

$$
\begin{array}{r}
80. \\
0.8\overline{)640.} \\
-64\downarrow \\
\hline
00 \\
-0 \\
\hline
0
\end{array}
$$

5.6 ÷ 0.014

$$\boxed{400}$$

$$
\begin{array}{r}
400. \\
0.014\overline{)5600.} \\
-56\downarrow \\
\hline
00 \\
-0\downarrow \\
\hline
00 \\
-0 \\
\hline
0
\end{array}
$$

0.4 ÷ 25

$$\boxed{0.016}$$

$$
\begin{array}{r}
.016 \\
25\overline{)0.400} \\
-25\downarrow \\
\hline
150 \\
-150 \\
\hline
0
\end{array}
$$

$13.36 ÷ 4.5

2.968

$$\boxed{\$2.97}$$

$$
\begin{array}{r}
2.968 \\
45\overline{)\$13.36000} \\
-90 \\
\hline
436 \\
-405\downarrow \\
\hline
310 \\
-270\downarrow \\
\hline
400 \\
-360\downarrow \\
\hline
400
\end{array}
$$

Chapter 3 Lessons 7 and 8

Divide Decimals by Whole Numbers and by Decimals

Decimal Division

If a decimal's in the house, raise it to the roof!

$$4\overline{)6.4}$$

$$4\overline{)6.4}$$ with work: 1.6; -4; 24; -24; 0

$64 \div 4 = 16$

If a decimal's on the side

Slide → $1.2\overline{)3.6}$ Slide $12\overline{)36.}$

$12\overline{)36}$

MAY NEED TO ANNEX ZEROES

Note: Some problems may instruct you to round to a certain place value if needed. In money problems, only need to divide to the thousandths place. Then round to the nearest hundredth. If answer is $13.365, it would be $13.37

EXAMPLES:

$7.5 \div 3$

$3.49 \div 4$

$8.424 \div 0.36$

$0.0063 \div 0.007$