

Chapter 3 Lessons 7 and 8

Divide Decimals by Whole Numbers and by Decimals

Decimal Division

If a decimal's in the house,

$$4 \overline{) 6.4}$$

$$\begin{array}{r} 1.6 \\ 4 \overline{) 6.4} \\ \underline{-4} \\ 2.4 \\ \underline{-2.4} \\ 0 \end{array}$$

raise it to
the roof!

$64 - 4 = 16$

If a decimal's on the side

Slide →

$$12 \overline{) 36}$$

Slide →

$$\begin{array}{r} 3 \\ 12 \overline{) 36} \\ \underline{-36} \\ 0 \end{array}$$

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:

$7.5 \div 3$

2.5

$$\begin{array}{r} 2.5 \\ 3 \overline{) 7.5} \\ \underline{-6} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

$3.49 \div 4$

0.8725

$$\begin{array}{r} \times 0.8725 \\ 4 \overline{) 3.4900} \\ \underline{-32} \\ 29 \\ \underline{-28} \\ 10 \\ \underline{-8} \\ 20 \end{array}$$

$8.424 \div 0.36$

23.4

$$\begin{array}{r} 23.4 \\ 0.36 \overline{) 8.424} \\ \underline{-72} \\ 122 \\ \underline{-108} \\ 144 \\ \underline{-144} \\ 0 \end{array}$$

$0.0063 \div 0.007$

0.9

$$\begin{array}{r} \times \times \times \times .9 \\ 0.007 \overline{) 0.0063} \\ \underline{-63} \\ 0 \end{array}$$

$$64 \div 0.8 = 80$$

Handwritten work:

$$\begin{array}{r} \times 80. \\ 0.8 \overline{) 64.0} \\ \underline{-64} \downarrow \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

$$5.6 \div 0.014 = 400$$

Handwritten answer: 400

Handwritten work:

$$\begin{array}{r} \times 400. \\ 0.014 \overline{) 5.600} \\ \underline{-56} \downarrow \\ 00 \\ \underline{-0} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

$$0.4 \div 25 = 0.016$$

Handwritten answer: 0.016

Handwritten work:

$$\begin{array}{r} \times \times 16 \\ 25 \overline{) 0.400} \\ \underline{-25} \downarrow \\ 150 \\ \underline{-150} \\ 0 \end{array}$$

$$\$13.36 \div 4.5 = 2.97$$

Handwritten answer: 2.968

Handwritten answer: \$2.97

Handwritten work:

$$\begin{array}{r} \times \times 2.968 \\ 4.5 \overline{) \$13.3600} \\ \underline{-90} \downarrow \\ 436 \\ \underline{-405} \downarrow \\ 310 \\ \underline{-270} \downarrow \\ 400 \\ \underline{-360} \downarrow \\ 400 \end{array}$$

Chapter 3 Lessons 7 and 8

Divide Decimals by Whole Numbers and by Decimals

Decimal Division

If a decimal's in the house,

$$\begin{array}{r} 4 \overline{) 6.4} \\ \underline{4} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

raise it to the roof!

$$64 \div 4 = 16$$

If a decimal's on the side

$$\begin{array}{r} \text{Slide} \\ 12 \overline{) 3.6} \\ \underline{12} \\ 06 \\ \underline{06} \\ 0 \end{array}$$
$$\begin{array}{r} \text{Slide} \\ 12 \overline{) 36} \\ \underline{12} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

MAY NEED TO ANNEX ZEROS

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:

$$7.5 \div 3$$

$$3.49 \div 4$$

$$8.424 \div 0.36$$

$$0.0063 \div 0.007$$