

Name: _____
Teacher: _____

Date: _____
Period: _____

Dividing Decimals Practice

Remember: To Divide with Decimals:

$$-13.84 \div 0.4$$

Dividend

Divisor

1. Change divisor to whole number by moving decimal to the right (outside)

$$0.4 \overline{)13.84}$$

2. Move decimal the same number of places in the dividend (inside)

$$0.4 \overline{)13.84}$$

3. Bring decimal straight up to quotient (answer)

$$4 \overline{)138.4}$$

4. Divide using long division

$$\begin{array}{r} 034.6 \\ 4 \overline{)138.4} \\ \underline{-124} \\ 18 \\ \underline{-16} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

$$\text{so } -13.84 \div 0.4 =$$

$$\boxed{-34.6}$$

5. Check **sign** of answer
(same signs = positive different signs = negative)

check:

$$\begin{array}{r} 34.6 \\ \times 0.4 \\ \hline 138.4 \end{array}$$

6. Check answer using multiplication (from **original** division problem)

Practice:

1. $12.64 \div -0.2 =$ _____

Check:

2. $-6.85 \div -0.5 =$ _____

Check:

2 decimal places

3. $-3.159 \div 1.3 =$ _____

Check:

4. $9.6 \div 0.3 =$ _____

Check:

5. $-4.48 \div 0.14 =$ _____

Check:

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Dividing Decimals Practice

Remember: To Divide with Decimals:

1. Change divisor to whole number by moving decimal to the right (outside)
2. Move decimal the same number of places in the dividend (inside)
3. Bring decimal straight up to quotient (answer)
4. Divide using long division
5. Check **sign** of answer
(same signs = positive different signs = negative)
6. Check answer using multiplication (from **original** division problem)

$$\begin{array}{r} -13.84 \div 0.4 \\ \text{Dividend} \quad \text{Divisor} \end{array}$$

$$0.4 \overline{)13.84}$$

$$0.4 \overline{)13.84}$$

$$4 \overline{)138.4}$$

$$\begin{array}{r} 034.6 \\ 4 \overline{)138.4} \\ \underline{-12} \\ 18 \\ \underline{-16} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

$$\text{so } -13.84 \div 0.4 = \boxed{-34.6}$$

check:

$$\begin{array}{r} 34.6 \\ \times 0.4 \\ \hline 138.4 \end{array}$$

2 decimal places

Practice:

1. $12.64 \div -0.2 = \underline{-63.2}$

$$\begin{array}{r} 63.2 \\ 0.2 \overline{)12.64} \\ \underline{12} \\ 06 \\ \underline{-6} \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

Check:

$$\begin{array}{r} -63.2 \\ \times -0.2 \\ \hline 1264 \\ 000 \\ \hline 12.64 \end{array}$$

12.64

works

2. $-6.85 \div -0.5 = \underline{13.7}$

$$\begin{array}{r} 13.7 \\ 0.5 \overline{)6.85} \\ \underline{-5} \\ 18 \\ \underline{-15} \\ 35 \end{array}$$

Check:

$$\begin{array}{r} 13.7 \\ \times -0.5 \\ \hline 685 \\ 000 \\ \hline -6.85 \end{array}$$

-6.85 works

3. $-3.159 \div 1.3 = \underline{-2.43}$

$$\begin{array}{r} 2.43 \\ 1.3 \overline{) 3.159} \\ \underline{26} \\ 55 \\ \underline{-52} \\ 39 \\ \underline{-39} \\ 0 \end{array}$$

Check:

$$\begin{array}{r} -2.43 \\ \times 1.3 \\ \hline 729 \\ 243 \\ \hline 3.159 \end{array}$$

$-3.159 \checkmark$ works

4. $9.6 \div 0.3 = \underline{32}$

$$\begin{array}{r} 32 \\ 0.3 \overline{) 9.6} \\ \underline{-9} \\ 06 \\ \underline{-6} \\ 0 \end{array}$$

Check:

$$\begin{array}{r} 32 \\ \times 0.3 \\ \hline 96 \\ 00 \\ \hline 09.6 \end{array}$$

$9.6 \checkmark$ works

5. $-4.48 \div 0.14 = \underline{-32}$

$$\begin{array}{r} 32 \\ 0.14 \overline{) 4.48} \\ \underline{-42} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

Check:

$$\begin{array}{r} -32 \\ \times 0.14 \\ \hline 128 \\ 32 \\ \hline -4.48 \end{array}$$

$-4.48 \checkmark$ works