

Take out your hw from page 552, write the number of problems you completed on the top, then start correcting.

11 Problems

Write each rational number as a decimal. Then tell whether each decimal is a terminating or a repeating decimal. (Explore Activity and Example 1)

1. $\frac{3}{5} = \underline{0.6}$
terminating

Den. Num $5 \overline{)3}$

5. $\frac{7}{9} = \underline{0.7777\dots}$
 $0.\overline{7}$ repeating

3. $\frac{4}{12} = \underline{0.333\dots}$
repeating $0.\overline{3}$

7. $\frac{1}{25} = \underline{0.04}$
terminating

9. $\frac{12}{1,000} = \underline{0.012}$
terminating

Write each mixed number as a decimal. (Example 2)

13. $7\frac{3}{15} = \underline{7.2}$

11. $2\frac{9}{10} = \underline{2.9}$

15. $3\frac{1}{18} = \underline{3.055\dots}$
 $18 \overline{)3.055}$
 $\underline{54}$
 18
 $\underline{18}$
 0
 $3.0\overline{5}$

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16. Maggie bought $3\frac{2}{3}$ lb of apples to make some apple pies. What is the weight of the apples written as a decimal? (Example 2)

$3\frac{2}{3} = \underline{3.666\dots}$

17. Harry's dog weighs $12\frac{7}{8}$ pounds. What is the weight of Harry's dog written as a decimal? (Example 2)

$12\frac{7}{8} = \underline{12.875}$

18. Tom is trying to write $\frac{3}{47}$ as a decimal. He used long division and divided until he got the quotient 0.0638297872, at which point he stopped. Since the decimal doesn't seem to terminate or repeat, he concluded that $\frac{3}{47}$ is not rational. Do you agree or disagree? Why?

Disagree; the definition of a rational number is a number that can be written as a ratio of two integers with a denominator not equal to zero, which describes $\frac{3}{47}$. Tom would need to keep dividing to find a repeating pattern or have the decimal terminate.

$3 \overline{)47}$ $9 \overline{)61}$

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LESSON 5.2 Adding and Subtracting Decimals

Adding Decimals

Adding decimals is similar to adding whole numbers. First align the numbers by place value. Start adding at the right and regroup when necessary. Bring down the decimal point into your answer.

EXAMPLE 1 *Real World*

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Susan rode her bicycle 3.12 miles on Monday and 4.7 miles on Tuesday. How many miles did she ride in all?

STEP 1 Align the decimal points.

	3	.	1	2
+	4	.	7	0
	7	.	8	2

STEP 2 Add zeros as placeholders when necessary.

STEP 3 Add from right to left.

Susan rode 7.82 miles in all.

STEP 4 Use estimation to check that the answer is reasonable. Round each decimal to the nearest whole number.

$$\begin{array}{r} 3.12 \longrightarrow 3 \\ + 4.70 \longrightarrow + 5 \\ \hline 7.82 \qquad \qquad 8 \end{array}$$

Since 8 is close to 7.82, the answer is reasonable.

3. Why can you rewrite 4.7 as 4.70?

$4.7 = 4\frac{7}{10}$ $4.70 = 4\frac{70}{100} = 4\frac{7}{10}$

4. Why is it important to align the decimal points when adding?

Aligns the place values

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YOUR TURN

Add.

5. $0.42 + 0.27 =$ _____

6. $0.61 + 0.329 =$ _____

$$\begin{array}{r} 0.42 \\ + 0.27 \\ \hline 0.69 \end{array}$$

$$\begin{array}{r} 0.610 \\ + 0.329 \\ \hline 0.939 \end{array}$$

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Subtracting Decimals pg.115

The procedure for subtracting decimals is similar to the procedure for adding decimals.

EXAMPLE 2



FL 6.NS.2.3

- A** Mia is 160.2 centimeters tall. Rosa is 165.1 centimeters tall. How much taller is Rosa than Mia?

STEP 1 Align the decimal points.

STEP 2 Add zeros as placeholders when necessary.

STEP 3 Subtract from right to left, regrouping when necessary.

	1	6	.	1
-	1	6	.	0
				2
				9

Rosa is 4.9 centimeters taller than Mia.

To check that your answer is reasonable, you can estimate. Round each decimal to the nearest whole number.

$$\begin{array}{r} 165.1 \longrightarrow 165 \\ - 160.2 \longrightarrow - 160 \\ \hline 4.9 \qquad \qquad 5 \end{array}$$

Since 5 is close to 4.9, the answer is reasonable.

- B** Matthew throws a discus 58.7 meters. Zachary throws the discus 56.12 meters. How much farther did Matthew throw the discus?

STEP 1 Align the decimal points.

STEP 2 Add zeros as placeholders when necessary.

STEP 3 Subtract from right to left, regrouping when necessary.

	5	8	.	7
-	5	6	.	1
				2
		2	.	5
				8

Matthew threw the discus 2.58 meters farther than Zachary.

To check that your answer is reasonable, you can estimate. Round each decimal to the nearest whole number.

$$\begin{array}{r} 58.7 \longrightarrow 59 \\ - 56.12 \longrightarrow - 56 \\ \hline 2.58 \qquad \qquad 3 \end{array}$$

Since 3 is close to 2.58, the answer is reasonable.

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12. $15.52 - 8.17 = \underline{\hspace{2cm}}$

14. $150.25 - 78 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 15.52 \\ - 8.17 \\ \hline 7.35 \end{array}$$

~~$$\begin{array}{r} 150.25 \\ - 78 \\ \hline \end{array}$$~~

$$\begin{array}{r} 150.25 \\ - 78.00 \\ \hline 72.25 \end{array}$$

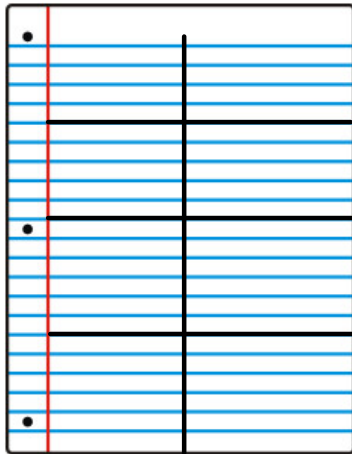
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Classwork/Homework

Textbook page 117 (18-30)

13 Problems *all*

Work in spiral/comp notebook



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