Practice

Decimals and Fractions

- 1. a) What is the word form of 0.59?
 - O A. Fifty-nine tenths
 - O B. Fifty-nine hundredths

 - b) What is the fraction form of 0.59?
 - O A. $\frac{59}{100}$
 - O B. $\frac{59}{10}$

O C. $\frac{59}{1,000}$

O C. Fifty-nine hundred

O D. Fifty-nine thousandths

- O D. $\frac{1}{59}$
- 2. Write the word form and fraction form of 0.654.
- 3. Write $\frac{19}{20}$ as a decimal without using long division.
- 4. Convert $\frac{13}{25}$ to a decimal.
- 5. Which decimal below is equivalent to $\frac{1}{9}$? The dots indicate that the repeating digits repeat without end.
 - O A. 0.222...

O C. 0.11

O B. 0.111...

- O D. 0.111
- 6. A supply closet contains $\frac{5}{9}$ of a school's crayons. Write $\frac{5}{9}$ as a decimal rounded to the nearest hundredth.
- 7. a) Reasoning Write 0.394 as a fraction.

8. Error Analysis Kyra tried to	write $\frac{197}{250}$ as a decimal without using long divi-
sion. Her result, 0.197, is not	equivalent to 197.
a) What is the correct decim	250.
b) What could possibly be 19	yrole-mistake?
O A. Lyra meent to mult	iply the numerator and denominator by 1 to
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O. B. Korn respect to distri	
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the denominator by	•
	lethe superator and denominator by 7.540
the numerator by 2	thacdon with denominator roo but divided only
O D. Wyra-maunt to mol i	
•	traction with denominator 1,000 but maidplied
enly the numerate	
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9. a) Which decimal is equivaled digital repeat without and	30 a The dots indicate that the repeating
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0 8-0.7373-	· O D_0.0069
b) Writing Best lbe a possib	is problem using data to represent repeating dig-
•	le problem using date to represent repeating dig- If you can a different way to represent repeating
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Practice 7-6

Comparing and Ordering Decimals and Fractions

1. Compare 9.95 and 9.91 using a greater than or less than symbol.

2. Order the numbers 0.125, 0.129, and 0.12 from least to greatest.

3. Use a greater than or less than symbol to compare $\frac{2}{5}$ and 0.4. Change the decimal to a fraction first.

4. Use a greater than or less than symbol to compare 0.31 and $\frac{1}{3}$. Change the fraction to a decimal first.

5. Order the numbers 0.56, 0.53, and $\frac{1}{2}$ from greatest to least.

6. Order the numbers $\frac{2}{7}$, 0.26, and 0.21 from least to greatest.

7. Reasoning Compare the decimals 7.131 and 7.134 using a greater than or less than symbol. Explain how you can use a number line to compare the two values.

8. Construction Zach wants to drill a hole with diameter no more than 0.5 inch. Can he use a $\frac{2}{5}$ -inch drill bit? Answer this question by changing the decimal to a fraction.

- 11. a) Error Analysis Suzie claims that the greatest of the numbers 0.49, 0.41, $\frac{4}{9}$, $\frac{4}{7}$ is $\frac{4}{7}$ and the least is $\frac{4}{9}$. Order the numbers from least to greatest.

- 12. You ordered 1 pound of charge at
 - Answer this question by changing the

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Practice 7-5

Decimals and Fractions

- 1. a) What is the word form of 0.59?
 - O A. Fifty-nine tenths

- O C. Fifty-nine hundred
- B. Fifty-nine hundredths
- O D. Fifty-nine thousandths
- b) What is the fraction form of 0.59?
 - A. 59/100

 \circ C. $\frac{59}{1,000}$

O B. $\frac{59}{10}$

- O D. $\frac{1}{59}$
- 2. Write the word form and fraction form of 0.654.

Six - hundred fifty-four thousandths

3. Write $\frac{19}{20}$ as a decimal without using long division.

19 x5 95 20 100 = 0.95

4. Convert $\frac{13}{25}$ to a decimal.

13 x4 52 25 x4 x 100 = 0.52

- 5. Which decimal below is equivalent to $\frac{1}{9}$? The dots indicate that the repeating digits repeat without end.
 - O A. 0.222...

O C. 0.11

◎ B. 0.111...

- O D. 0.111
- **6.** A supply closet contains $\frac{5}{9}$ of a school's crayons. Write $\frac{5}{9}$ as a decimal rounded to the nearest hundredth.

0.5<u>(5)</u>5 → 0.56

7. a) Reasoning Write 0.394 as a fraction.

394 = 2 = 197 1000 = 2 500

Could you use the same method to write 0.394 as a mixed number? As an improper fraction? Explain.

8. Error Analysis Kyra trie	d to write $\frac{197}{350}$	as a decim	al without	using lo	ng divi-
sion. Her result, 0.197,	is not equivalent	to $\frac{197}{250}$.	107	x 43	799
a) What is the correct of	lecimal equivale	nt?	197	=	100
a) What is the correct of	lecimai equivare		250	XX	1000
What could possibly	be Kyra's mistal	ce?		M 1045 .	
O A. Kyra meant to make an equ	multiply the nu valent fraction v minator by 4.	imerator a	and denon minator 1,	ninator b 000 but r	y 4 to nultiplied
B. Kyra meant t make an equ the denomin	o divide the num ivalent fraction v ator by 2.5.	with deno	minator i	oo but ar	videa omy
the numerat	ivalent fraction or by 2.5.	with deno	minator 1	oo but ai	vided only
D. Kyra meant final make an equipment only the number	ivalent fraction	umerator with deno	and deno ominator 1	,000 but	multiplied
9. a) Which decimal is e	quivalent to $\frac{20}{30}$? The dots	indicate t	hat the r	epeating
O A. 0.7222		C	C. 0.600	0	
O B. 0.7272	ool a	- C	D. 0.606	0	
Writing Describe a its in a decimal. De digits in a decimal					
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5 digits repeat witho				4.7	
may be used to find y	our answer.		quivalent	41 . 7	calculator
			in. o.b		
			- 00		
O A. 0.34707		0	C. 0.314	07	
○ B. 0.31707		0	D. 0.344	07	
11. Buying Chicken A pac	kage of chicken	weighs $\frac{2}{3}$	kg.		
a) Use a decimal to a	_	- 3			

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Practice 7-6

Comparing and Ordering Decimals and Fractions

1. Compare 9.95 and 9.91 using a greater than or less than symbol.

2. Order the numbers 0.125, 0,129, and 0.12 from least to greatest.

0.12, 0.125, 0.129

0.125 0.129

3. Use a greater than or less than symbol to compare $\frac{2}{5}$ and 0.4. Change the decimal to a fraction first.

들 = 0.4

르 노 = 르

4. Use a greater than or less than symbol to compare 0.31 and $\frac{1}{2}$. Change the fraction to a decimal first.

0.31 4 =

5. Order the numbers 0.56, 0.53, and $\frac{1}{2}$ from greatest to least.

0.56, 0.53, 艺

6. Order the numbers $\frac{2}{7}$, 0.26, and 0.21 from least to greatest.

0.21, 0.26 =

7. Reasoning Compare the dedimals 7.131 and 7.134 using a greater than or less than symbol. Explain how you can use a number line to compare the two values.

7.134 will be slightly to the right of 7.131 and as a result will be slightly greater.

8. Construction Zach wants to drill a hole with diameter no more than 0.5 inch. Can he use a $\frac{2}{5}$ -inch drill bit? Answer this question by changing the decimal to a fraction.

Is = ≤ 0.5 → YES 0.4 ≤ 0.5

- 9. a) Writing Compare 0.93 and $\frac{11}{12}$ using a greater than or less than symbol. Change the fraction to a decimal first.
 - When comparing a decimal and a fraction, do you prefer to change the decimal to a fraction or change the fraction to a decimal? Why?
- 10. Estimation Round the decimals to the nearest tenth. Then use these rounded values to order the numbers 0.37, 0.31, $\frac{3}{5}$, and $\frac{7}{20}$ from greatest to least.
- 11. a) Error Analysis Suzie claims that the greatest of the numbers 0.49, 0.41, $\frac{4}{9}$, $\frac{4}{7}$ is $\frac{4}{7}$ and the least is $\frac{4}{9}$. Order the numbers from least to greatest.

- b) What was Suzie's likely error?
 - O A. She stopped dividing after only one place when finding the decimal equivalent of $\frac{4}{17}$.
 - O B. She divided the denominator of $\frac{4}{9}$ by its numerator to find the decimal equivalent.
 - O C. She stopped dividing after only one place when finding the decimal equivalent of $\frac{4}{9}$.
 - O D. She switched the order of the two fractions.
- 12. You ordered $\frac{1}{4}$ pound of cheese at the market. The digital scale used to weigh the cheese read 0.25 pound.
 - a) Did you get less than, more than, or exactly the amount you requested?

 Answer this question by changing the decimal to a fraction.