

11. * Possible response: three purples and one green; $0.3 + 0.2 = 0.5$. See Figure 3.
12. A. pink
 B. green
 C. 3 purples
13. Possible response: three greens and four purples; $0.6 + 0.4 = 1.0$
14. A. =
 B. >
 C. <
 D. <
 E. =
 F. =

Number Sentences

For Questions 11–14, the red circle is one whole or 1.0. The pink piece is $\frac{1}{2}$ or 0.5.

Since one pink piece equals two greens and a purple piece, we can write a number sentence to represent the figure.

11. Show 0.5 another way using purple and green pieces. (Cover a pink piece with purple and green pieces.) Write a number sentence to represent this figure.

$0.5 = 0.2 + 0.2 + 0.1$

We can show 1 whole with two or more colors and write a number sentence to represent the figure.

12. Use the picture to the right to answer these questions:

A. Which piece shows 0.5?
 B. Which piece shows 0.2?
 C. Which pieces show 0.3?

13. Show 1 whole another way using green and purple pieces. Write a number sentence for this figure.

14. Copy the number sentences below. Use <, >, or = to make the statements true. Justify your answers using circle pieces.

For example, this figure shows that $0.4 = \frac{2}{5}$.

$0.4 = \frac{2}{5}$

A. $0.6 < \frac{3}{5}$ B. $0.6 > \frac{1}{2}$ C. $0.9 < 1.0$
 D. $1.1 > 1\frac{1}{5}$ E. $1.2 > \frac{12}{10}$ F. $1.2 > 1\frac{1}{5}$

Use the *Showing Decimals* pages in the *Student Activity Book* to show decimals in many different ways.

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Student Guide - Page 465

Student Activity Book

Showing Decimals

Questions 1–21 (SAB pp. 409–418)

and

Homework

Questions 1–10 (SAB pp. 419–420)

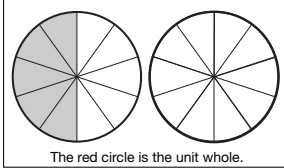
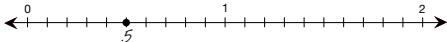
Answers are shown in minis on following pages.

Name _____ Date _____

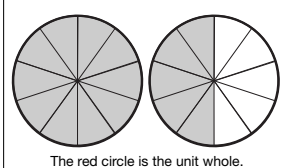
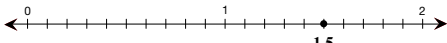
Showing Decimals

Complete the missing information to show the fraction in each box below in many ways. The first one is an example. Use the *Writing Numbers in Words* page in the *Student Guide Reference* section.

Example

| | |
|---|--|
| $\frac{0.5}{\text{decimal fraction}}$ |  <p>The red circle is the unit whole. drawing</p> |
| $\frac{\frac{5}{10} \text{ or } \frac{1}{2}}{\text{common fraction}}$ | |
| $\frac{\text{five-tenths}}{\text{words}}$ | |
|  | |

1.

| | |
|---|--|
| $\frac{1.5}{\text{decimal fraction}}$ |  <p>The red circle is the unit whole. drawing</p> |
| $\frac{1\frac{1}{2}}{\text{common fraction}}$ | |
| $\frac{\text{one and one-half}}{\text{words}}$ | |
|  | |

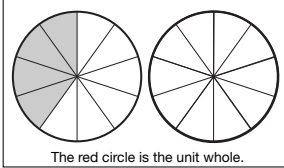
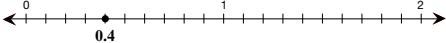
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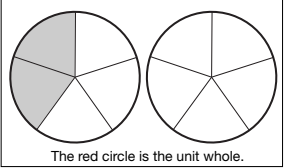
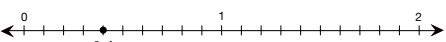
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Name _____ Date _____

2.

| | |
|--|--|
| $\frac{0.4}{\text{decimal fraction}}$ |  <p>The red circle is the unit whole. drawing</p> |
| $\frac{\frac{4}{10}}{\text{common fraction}}$ | |
| $\frac{\text{four-tenths}}{\text{words}}$ | |
|  | |

3.

| | |
|--|--|
| $\frac{0.4}{\text{decimal fraction}}$ |  <p>The red circle is the unit whole. drawing</p> |
| $\frac{\frac{2}{5}}{\text{common fraction}}$ | |
| $\frac{\text{four-tenths or two-fifths}}{\text{words}}$ | |
|  | |

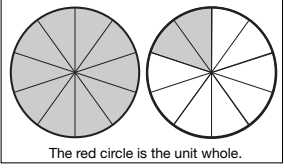
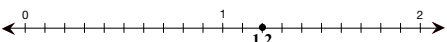
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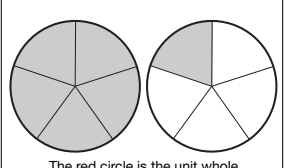
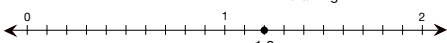
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Name _____ Date _____

4.

| | |
|---|--|
| $\frac{1.2}{\text{decimal fraction}}$ |  <p>The red circle is the unit whole. drawing</p> |
| $\frac{1\frac{2}{10}}{\text{common fraction}}$ | |
| $\frac{\text{one and two-tenths}}{\text{words}}$ | |
|  | |

5.

| | |
|---|--|
| $\frac{1.2}{\text{decimal fraction}}$ |  <p>The red circle is the unit whole. drawing</p> |
| $\frac{1\frac{1}{5} \text{ or } 1\frac{2}{10}}{\text{common fraction}}$ | |
| $\frac{\text{one and one-fifth or one and two-tenths}}{\text{words}}$ | |
|  | |

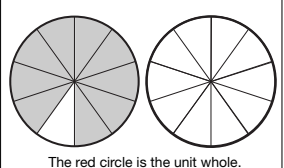
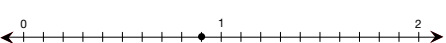
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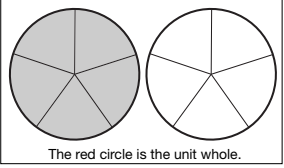

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Name _____ Date _____

6.

| | |
|--|--|
| $\frac{0.9}{\text{decimal fraction}}$ |  <p>The red circle is the unit whole. drawing</p> |
| $\frac{\frac{9}{10}}{\text{common fraction}}$ | |
| $\frac{\text{nine-tenths}}{\text{words}}$ | |
|  | |

7.

| | |
|--|--|
| $\frac{1.0}{\text{decimal fraction}}$ |  <p>The red circle is the unit whole. drawing</p> |
| $\frac{1 \text{ or } \frac{5}{5}}{\text{common fraction}}$ | |
| $\frac{\text{one whole or five-fifths}}{\text{words}}$ | |
|  | |

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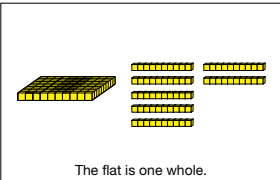
Name _____ Date _____

8.

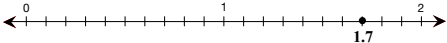
$\frac{1.7}{}$
decimal fraction

$1\frac{7}{10}$
common fraction

one and seven-tenths
words



The flat is one whole.
drawing



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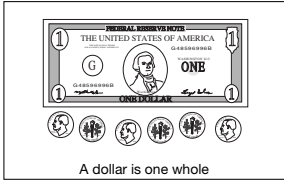
Name _____ Date _____

10.

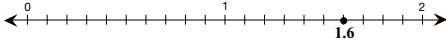
1.6 or 1.60
decimal fraction

$1\frac{6}{10}$
common fraction

one and six-tenths
words



A dollar is one whole
drawing



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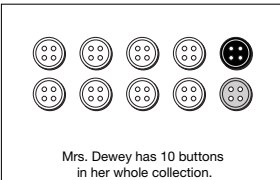
Name _____ Date _____

12.

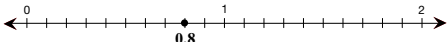
0.8 white
decimal fraction

$\frac{8}{10}$ white
common fraction

eight-tenths white
words



Mrs. Dewey has 10 buttons in her whole collection.
drawing



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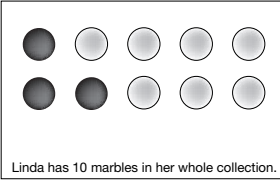
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13.

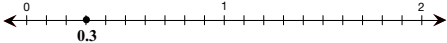
0.3 black
decimal fraction

$\frac{3}{10}$ black
common fraction

three-tenths black
words



Linda has 10 marbles in her whole collection.
drawing



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Name _____ Date _____

14.

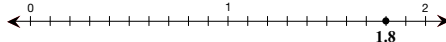
1.8
decimal fraction

$1\frac{8}{10}$
common fraction

one and eight-tenths
words

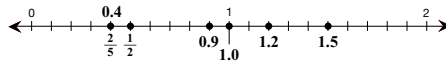
Drawings will vary.

The _____ is one whole.
Make your own drawing.



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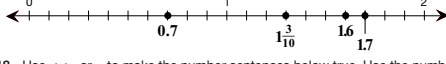
15. Use Questions 1–7 to put the following numbers on the number line below:
 $\frac{1}{2}$, 1.5, $\frac{2}{5}$, 1.2, 0.9, 1.0, 0.4.



16. Use <, >, or = to make the number sentences below true. Use the number line in Question 17 to help you.

A. 1.5 = $1\frac{1}{2}$ B. $\frac{2}{5}$ < 0.9 C. 1.2 > 0.9

17. Use Questions 8–11 to put the following numbers on the number line below:
1.7, $1\frac{3}{10}$, 1.6, 0.7.



18. Use <, >, or = to make the number sentences below true. Use the number line in Question 17 to help you.

A. 1.7 > $1\frac{3}{10}$ B. 0.7 < 0.9 C. 1.7 > 1.6

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Answer Key • Lesson 3: Many Ways to Show a Decimal

Name _____ Date _____

✓ Check-In: Questions 19-21

Complete the missing information to show the fraction in Questions 19 and 20 in many ways. Use the *Writing Numbers in Words* page in the *Student Guide Reference* section.

19.

| | |
|------------------------------------|--|
| 1.1 decimal fraction | Drawings will vary. The _____ is one whole. Make your own drawing. |
| $1\frac{1}{10}$ common fraction | |
| One and one-tenth words | |

20.

| | |
|-----------------------------------|---|
| 0.6 decimal fraction | Drawings will vary. The _____ is one whole. drawing |
| $\frac{6}{10}$ common fraction | |
| six-tenths words | |

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Name _____ Date _____

21. Which is larger, 1.1 or 0.6? Tell how you know.

Possible response: 1.1 is larger than 0.6.
 10 tenths make one whole, so $1.1 = \frac{10}{10} + \frac{1}{10} = \frac{11}{10}$.
 0.6 means six tenths or $\frac{6}{10}$. $\frac{11}{10} > \frac{6}{10}$ so 1.1 is larger.

or

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| Showing Decimals Check-In: Questions 19-21 Feedback Box | | | |
|--|-------------|----------|----------|
| | Expectation | Check In | Comments |
| Show decimal fractions in five ways: • Using drawings and number lines. [Q# 19-20] • Using words and numbers. [Q# 19-20] | E5 | | |
| | E6 | | |
| Make connections among representations of decimals. [Q# 19-20] | E7 | | |
| Compare decimals. [Q# 21] | E8 | | |

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Date _____

Homework

Fill in each column so that each fraction is shown four different ways.

| | Common Fraction | Decimal Fraction | Drawing | Number Line |
|----|-----------------|------------------|---------|-------------|
| 1. | $\frac{1}{10}$ | 0.1 | | |
| 2. | $\frac{2}{10}$ | 0.2 | | |
| 3. | $\frac{3}{10}$ | 0.3 | | |
| 4. | $\frac{4}{10}$ | 0.4 | | |
| 5. | $\frac{5}{10}$ | 0.5 | | |

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Name _____ Date _____

| | Common Fraction | Decimal Fraction | Drawing | Number Line |
|-----|----------------------|------------------|---------|-------------|
| 6. | $\frac{6}{10}$ | 0.6 | | |
| 7. | $\frac{7}{10}$ | 0.7 | | |
| 8. | $\frac{8}{10}$ | 0.8 | | |
| 9. | $\frac{9}{10}$ | 0.9 | | |
| 10. | $\frac{10}{10}$ or 1 | 1.0 | | |

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