BRIDGES®
IN MATHEMATICS

Grade 4 Unit 3 Module 3
Practice Pages for Math at Home

The Bridges Second Edition Module Packets, available from the Home Learning Resources page of the Bridges Educator Site, are designed to provide a review of math topics that were covered in class prior to school closures. They are meant for teachers to send home, so students can continue to engage with key grade-level skills. The material in these packets includes exercises that can be completed by students at home with their families.

🔍 Comparing Decimals & Fractions page 1 of 2

For all questions below, write an inequality using the symbols < or > to show your answer.

1 Two baby hummingbirds hatched last week at the zoo. A researcher is keeping track of their weights. Today Baby A weighs 1.2 grams and Baby B weighs 1.09 grams. Which is heavier, Baby A or Baby B?

2 Rosario and her friend Keiko walked in the walkathon to benefit the animal shelter. Rosario walked 3.41 miles, and Keiko walked 3.8 miles. Who walked farther?

3 A giant panda at the Beijing Zoo in China had twins named Lucy and Lei. Giant pandas can weigh over 200 pounds when fully grown, but they have very tiny babies. When they were born, Lei weighed 5.29 ounces and Lucy weighed 5.9 ounces. Which twin was heavier?
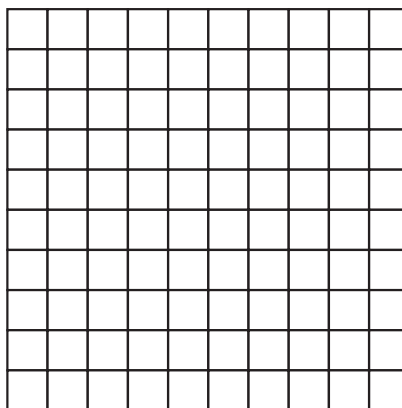
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NAME | DATE

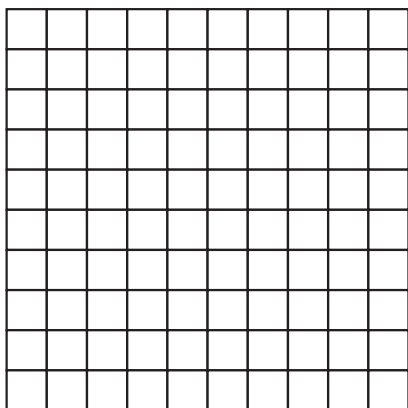## Comparing Decimals & Fractions page 2 of 2

4 Which fraction is larger: $\frac{6}{10}$ or $\frac{49}{100}$?

a Explain why you think so.

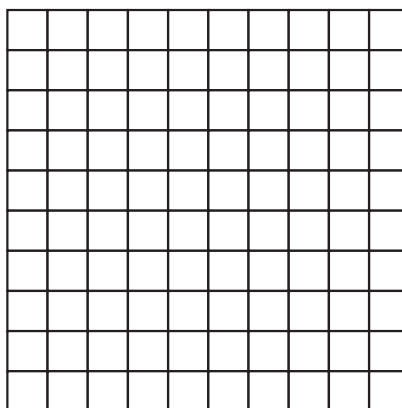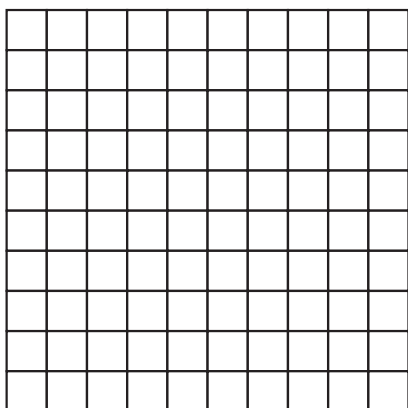**b** Draw each fraction on a grid below to verify your answer.

c Record each fraction as a decimal number.

$\frac{6}{10} =$ $\frac{49}{100} =$

5 a On each grid below: shade in and label a different number between 0.45 and 0.5.

b Compare the numbers. Write an inequality using the symbol < or > to show which number is larger.

NAME | DATE

Number Riddles

1 Draw a line to show which number matches each description. This first one has been done for you as an example.

ex This number has a 2 in the thousands place.   58,252

a This number has a 5 in the tenths place.   6.37

b This number is even and has an 8 in the thousands place.   8,711

c This number is less than 10 and has a 7 in the hundredths place.   62,189

d This number is odd and has a 7 in the hundreds place.   800.51

2 Write each number in words.

a 1.89

b 2.03

c Use a symbol (<, >, =) to compare these numbers: 1.89 _____ 2.03.

3 Write each number as a decimal and a mixed number:

a Three and eighty-three hundredths _____ _____

b Four and six hundredths _____ _____

c Use a symbol (<, >, =) to compare the two numbers in 3a and 3b.

_____ ___ _____

4 **CHALLENGE** Write an even number that has a 7 in the hundreds place, an odd number in the thousands place, and is a multiple of 10.

|DATE

Tenths & Hundredths

1 Each grid below has a value of 1.0. Write two fractions and two decimals to show the amount shaded in on each.

		Fractions	Decimals
ex		$\dfrac{4}{10}$ $\dfrac{40}{100}$	0.4 0.40
a			
b			
c			

2 Rewrite each fraction as an equivalent fraction with denominator 100. (The first one is done for you.)

$\dfrac{2}{10} = \dfrac{20}{100}$ $\dfrac{9}{10} =$ $\dfrac{1}{10} =$ $\dfrac{8}{10} =$ $\dfrac{5}{10} =$

3 Add these pairs of fractions. Express the answer for each as a fraction with denominator 100.

$\dfrac{2}{10} + \dfrac{35}{100} =$ $\dfrac{9}{10} + \dfrac{6}{100} =$ $\dfrac{1}{10} + \dfrac{89}{100} =$ $\dfrac{8}{10} + \dfrac{13}{100} =$
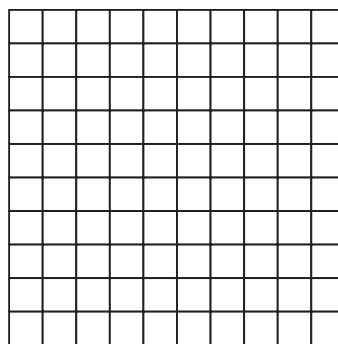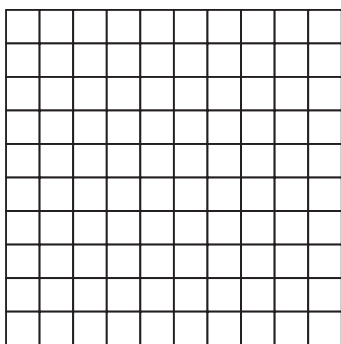
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More Comparing Decimals & Fractions page 1 of 2

1 Which fraction is larger: $\frac{8}{10}$ or $\frac{73}{100}$?
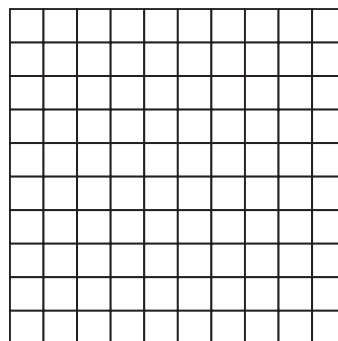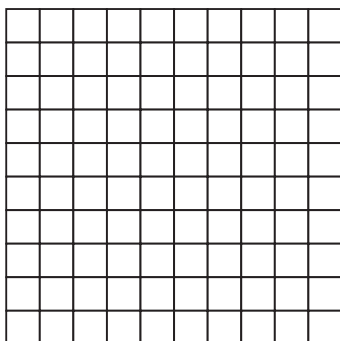
a Explain why you think so.

b Draw each fraction on a grid below to verify your answer.

c Record each fraction as a decimal number.

$\frac{8}{10}$ _____ $\frac{73}{100}$ _____

2 On the first grid below, shade a number between 0.75 and 0.8 and label it. Then shade in and label a different number between 0.75 and 0.8 on the second grid.

_____   _____

a Compare the two numbers you shaded in the grids. Write an inequality using the symbol < or > to show which number is larger.

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More Comparing Decimals & Fractions page 2 of 2

3 Write these numbers as decimals:

   a Two and eighty-three hundredths _____

   b One and six hundredths _____

4 Write this decimal number in words: 2.94.

5 Fill in each blank with <, >, or =.
   a 0.8 _____ 0.78   **b** 0.56 _____ 0.6   **c** 0.6 _____ 0.60

6 Allison says that 1.06 is bigger than 1.2 because 6 is bigger than 2. Do you agree or disagree? Explain.

7 Erik is 4.23 feet tall. Stacy is 4.3 feet tall. Who is taller? Explain.

8 **CHALLENGE** One year ago, Charlie's chameleon was 8.42 inches long. Now his chameleon is 9.36 inches long. Show your work with numbers, labeled sketches, or words for each question below.

   a How much did Charlie's chameleon grow in the last year?

   b How much more does his chameleon need to grow to be exactly 10 inches?

NAME _____ | DATE _____

🏠 Decimals, Fractions & Story Problems page 1 of 2

1 Write the place value of the underlined digit in each number. The place values are spelled correctly for you here:

hundreds   tens   ones   tenths   hundredths

ex 2.0<u>3</u> hundredths	**a** 3.<u>1</u>7
b 12<u>0</u>.4	**c** <u>5</u>06.92
d 54.2<u>9</u>	**e** 32.<u>7</u>

2 Write each decimal number.

ex Twenty-three and two-tenths: ___23.2_____

ex One hundred thirty and five-hundredths: ___130.05_____

a Six and seven-hundredths: _____

b Two-hundred sixty-five and eight-tenths: _____

3 Write each fraction or mixed number as a decimal number.

ex $5\frac{3}{10}$ 5.3	**ex** $12\frac{4}{100}$ 12.04	**ex** $3\frac{17}{100}$ 3.17
a $\frac{7}{10}$	**b** $3\frac{5}{100}$	**c** $\frac{4}{100}$
d $4\frac{38}{100}$	**e** $1\frac{9}{100}$	**f** $1\frac{9}{10}$

4 Use a greater than (>), less than (<), or equal sign to show the relationship between the decimal numbers below.
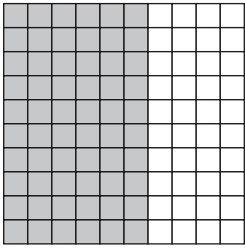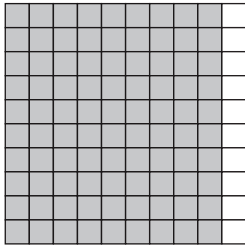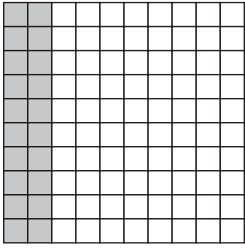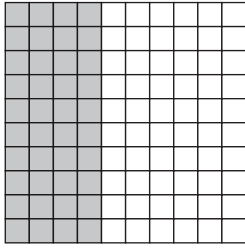
ex 1.09 < 1.9	**a** 1.12 ▢ 1.2	**b** 3.5 ▢ 3.48
c 23.81 ▢ 23.85	**d** 4.50 ▢ 4.5	**e** 3.06 ▢ 3.65

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Decimals, Fractions & Story Problems page 2 of 2

5 Write two fractions to show what part of each mat has been shaded in—one with denominator 10 and an equivalent fraction with denominator 100.

ex

$\dfrac{6}{10} = \dfrac{60}{100}$

a

_____ = _____

b

_____ = _____

c

_____ = _____

6 Last Friday, Ray went home with his cousin Jewel after school. They took the city bus to Jewel's house. It costs $1.65 to ride the bus. Ray had 5 quarters, a dime, and 3 nickels. How much more money did he need to ride the bus? Show all your work.

a How much did it cost Ray and Jewel to ride the bus in all? Show all your work.

7 Ray's school is 1.7 miles from his house. He walks to and from school every day. How many miles does he walk each day? Show all your work.

a **CHALLENGE** How many miles does he walk in a 5-day school week? Show all your work.

NAME | **DATE**

🔍 **Comparing Decimals & Fractions** page 1 of 2

For all questions below, write an inequality using the symbols < or > to show your answer.

1 Two baby hummingbirds hatched last week at the zoo. A researcher is keeping track of their weights. Today Baby A weighs 1.2 grams and Baby B weighs 1.09 grams. Which is heavier, Baby A or Baby B?

Baby A is heavier.
1.2 > 1.09

■ ‖ > ■ ⁞⁞

2 Rosario and her friend Keiko walked in the walkathon to benefit the animal shelter. Rosario walked 3.41 miles, and Keiko walked 3.8 miles. Who walked farther?

Keiko walked farther.
3.8 > 3.41

■ ■ ■ ‖‖‖‖‖‖ > ■ ■ ■ ‖‖‖ ˙

3 A giant panda at the Beijing Zoo in China had twins named Lucy and Lei. Giant pandas can weigh over 200 pounds when fully grown, but they have very tiny babies. When they were born, Lei weighed 5.29 ounces and Lucy weighed 5.9 ounces. Which twin was heavier?

Lucy was heavier.
5.9 > 5.29
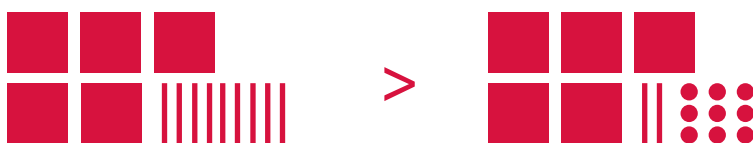
■ ■ ■
■ ■ ‖‖‖‖‖‖ > ■ ■ ■ ■ ■ ‖ ⁞⁞

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NAME | DATE

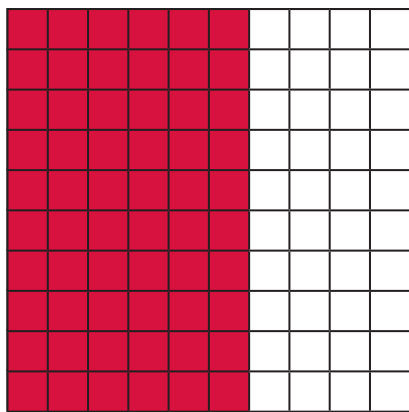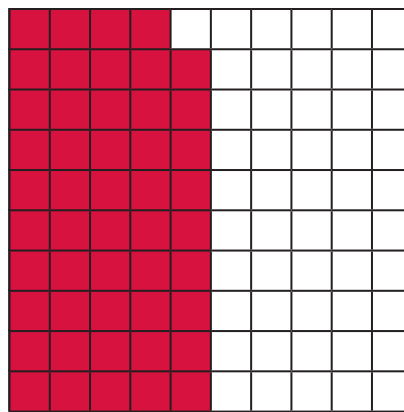## Comparing Decimals & Fractions page 2 of 2

4 Which fraction is larger: $\frac{6}{10}$ or $\frac{49}{100}$? **⁶⁄₁₀**

a Explain why you think so.

Explanations will vary. Example:
⁶⁄₁₀ is the same as ⁶⁰⁄₁₀₀, and ⁶⁰⁄₁₀₀ > ⁴⁹⁄₁₀₀.

b Draw each fraction on a grid below to verify your answer.

⁶⁄₁₀   **⁴⁹⁄₁₀₀**

c Record each fraction as a decimal number.

$\frac{6}{10}$ = **0.6** $\frac{49}{100}$ = **0.49**

5 a On each grid below: shade in and label a different number between 0.45 and 0.5.
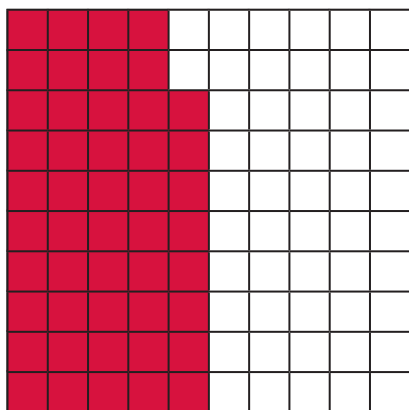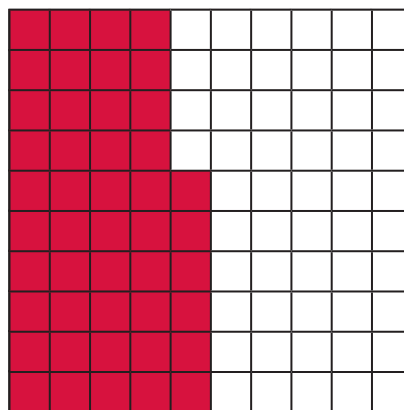
Answers will vary. Examples shown.

0.48   **0.46**

b Compare the numbers. Write an inequality using the symbol < or > to show which number is larger.

0.46 < 0.48

NAME _____ | DATE _____

Number Riddles

1 Draw a line to show which number matches each description. This first one has been done for you as an example.

ex This number has a 2 in the thousands place.   58,252

a This number has a 5 in the tenths place.   6.37

b This number is even and has an 8 in the thousands place.   8,711

c This number is less than 10 and has a 7 in the hundredths place.   62,189

d This number is odd and has a 7 in the hundreds place.   800.51

2 Write each number in words.

a 1.89   **One and eighty-nine hundredths**

b 2.03   **Two and three hundredths**

c Use a symbol (<, >, =) to compare these numbers: 1.89 __**<**__ 2.03.

3 Write each number as a decimal and a mixed number:

a Three and eighty-three hundredths **3.83**   **3 $\frac{83}{100}$**

b Four and six hundredths **4.06**   **4 $\frac{6}{100}$**

c Use a symbol (<, >, =) to compare the two numbers in 3a and 3b.
3.83 **<** **4.06**

4 CHALLENGE Write an even number that has a 7 in the hundreds place, an odd number in the thousands place, and is a multiple of 10.

Responses will vary. Example: 3,750

NAME _____ | **DATE** _____

🗒 Tenths & Hundredths

1 Each grid below has a value of 1.0. Write two fractions and two decimals to show the amount shaded in on each.

		Fractions	Decimals
ex		$\dfrac{4}{10}$ $\dfrac{40}{100}$	0.4 0.40
a		$\dfrac{7}{10}$ $\dfrac{70}{100}$	**0.7 0.70**
b		$\dfrac{1}{10}$ $\dfrac{10}{100}$	**0.1 0.10**
c		**$1\dfrac{3}{10}$** **$1\dfrac{30}{100}$**	**1.3 1.30**

2 Rewrite each fraction as an equivalent fraction with denominator 100. (The first one is done for you.)

$\dfrac{2}{10} = \dfrac{20}{100}$ $\dfrac{9}{10} = \mathbf{\dfrac{90}{100}}$ $\dfrac{1}{10} = \mathbf{\dfrac{10}{100}}$ $\dfrac{8}{10} = \mathbf{\dfrac{80}{100}}$ $\dfrac{5}{10} = \mathbf{\dfrac{50}{100}}$

3 Add these pairs of fractions. Express the answer for each as a fraction with denominator 100.

$\dfrac{2}{10} + \dfrac{35}{100} = \mathbf{\dfrac{55}{100}}$ $\dfrac{9}{10} + \dfrac{6}{100} = \mathbf{\dfrac{96}{100}}$ $\dfrac{1}{10} + \dfrac{89}{100} = \mathbf{\dfrac{99}{100}}$ $\dfrac{8}{10} + \dfrac{13}{100} = \mathbf{\dfrac{93}{100}}$
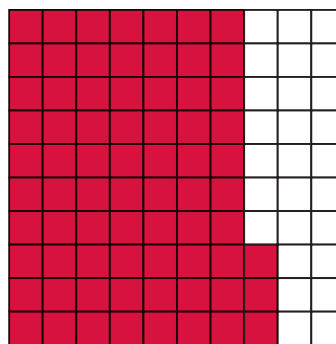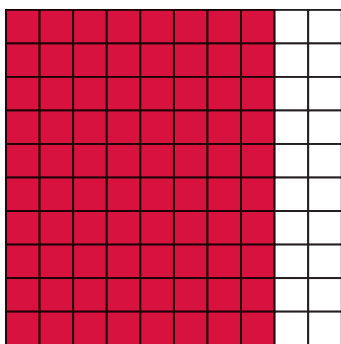
NAME _____ | **DATE** _____

🏠 More Comparing Decimals & Fractions page 1 of 2

1 Which fraction is larger: $\frac{8}{10}$ or $\frac{73}{100}$? **⁸⁄₁₀**

a Explain why you think so.

Work will vary. Example: ⁸⁄₁₀ is greater because ⁸⁄₁₀ = ⁸⁰⁄₁₀₀, and ⁸⁰⁄₁₀₀ > ⁷³⁄₁₀₀
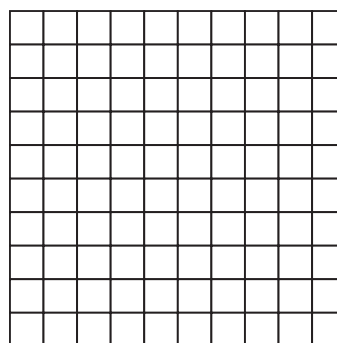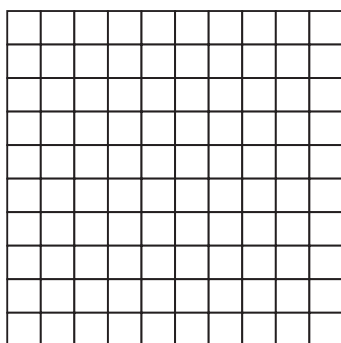
b Draw each fraction on a grid below to verify your answer.

c Record each fraction as a decimal number.

$\frac{8}{10}$ **0.8 or 0.80** $\frac{73}{100}$ ___**0.73**___

2 On the first grid below, shade a number between 0.75 and 0.8 and label it. Then shade in and label a different number between 0.75 and 0.8 on the second grid.

Work will vary. Any number from 0.76 to 0.79 will work.

a Compare the two numbers you shaded in the grids. Write an inequality using the symbol < or > to show which number is larger.

Work will vary.

(continued on next page)

NAME | DATE

More Comparing Decimals & Fractions page 2 of 2

3 Write these numbers as decimals:

a Two and eighty-three hundredths __**2.83**__

b One and six hundredths __**1.06**__

4 Write this decimal number in words: 2.94.

Two and ninety four hundredths.

5 Fill in each blank with <, >, or =.

a 0.8 __**>**__ 0.78

b 0.56 __**<**__ 0.6

c 0.6 __**=**__ 0.60

6 Allison says that 1.06 is bigger than 1.2 because 6 is bigger than 2. Do you agree or disagree? Explain.

Work will vary. She is incorrect. 1.06 < 1.2

7 Erik is 4.23 feet tall. Stacy is 4.3 feet tall. Who is taller? Explain.

Stacy is taller. 4.3 > 4.23

8 CHALLENGE One year ago, Charlie's chameleon was 8.42 inches long. Now his chameleon is 9.36 inches long. Show your work with numbers, labeled sketches, or words for each question below.

a How much did Charlie's chameleon grow in the last year?

0.94 inch

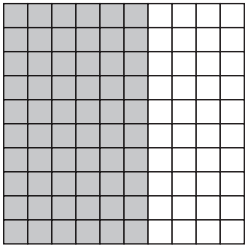**b** How much more does his chameleon need to grow to be exactly 10 inches?

0.64 inch

NAME _____ | DATE _____

Decimals, Fractions & Story Problems page 1 of 2

1   Write the place value of the underlined digit in each number. The place values are spelled correctly for you here:

hundreds   tens   ones   tenths   hundredths

ex 2.0$\underline{3}$ hundredths	**a** 3.$\underline{1}$7 **tenths**
b 12$\underline{0}$.4 **ones**	**c** $\underline{5}$06.92 **hundreds**
d 54.2$\underline{9}$ **hunredths**	**e** 32.$\underline{7}$ **tenths**

2   Write each decimal number.

ex Twenty-three and two-tenths: ____23.2____

ex One hundred thirty and five-hundredths: ____130.05____

a   Six and seven-hundredths: ____**6.07**____

b   Two-hundred sixty-five and eight-tenths: ____**265.8**____

3   Write each fraction or mixed number as a decimal number.

ex $5\frac{3}{10}$ 5.3	**ex** $12\frac{4}{100}$ 12.04	**ex** $3\frac{17}{100}$ 3.17
a $\frac{7}{10}$ **0.7**	**b** $3\frac{5}{100}$ **3.05**	**c** $\frac{4}{100}$ **0.04**
d $4\frac{38}{100}$ **4.38**	**e** $1\frac{9}{100}$ **1.09**	**f** $1\frac{9}{10}$ **1.9**

4   Use a greater than (>), less than (<), or equal sign to show the relationship between the decimal numbers below.

ex 1.09 **<** 1.9	**a** 1.12 **<** 1.2	**b** 3.5 **>** 3.48
c 23.81 **<** 23.85	**d** 4.50 **=** 4.5	**e** 3.06 **<** 3.65

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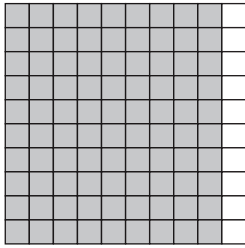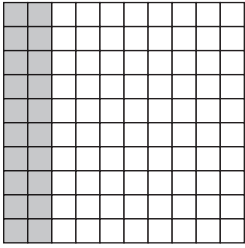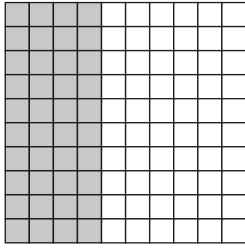
Decimals, Fractions & Story Problems page 2 of 2

5 Write two fractions to show what part of each mat has been shaded in—one with denominator 10 and an equivalent fraction with denominator 100.

ex		**a**
$\frac{6}{10} = \frac{60}{100}$		$\frac{9}{10} = \frac{90}{100}$
b $\frac{2}{10} = \frac{20}{100}$		**c** $\frac{4}{10} = \frac{40}{100}$

6 Last Friday, Ray went home with his cousin Jewel after school. They took the city bus to Jewel's house. It costs $1.65 to ride the bus. Ray had 5 quarters, a dime, and 3 nickels. How much more money did he need to ride the bus? Show all your work.

15¢

a How much did it cost Ray and Jewel to ride the bus in all? Show all your work.

$3.30

7 Ray's school is 1.7 miles from his house. He walks to and from school every day. How many miles does he walk each day? Show all your work.

3.4 miles

a **CHALLENGE** How many miles does he walk in a 5-day school week? Show all your work.

17 miles