

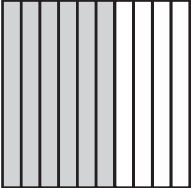
Name _____

Relate Tenths and Decimals

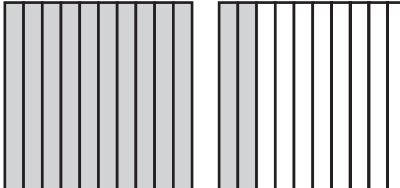



COMMON CORE STANDARD—4.NF.6
Understand decimal notation for fractions, and compare decimal fractions.

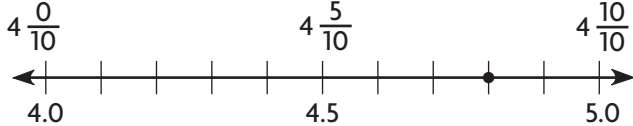
Write the fraction or mixed number and the decimal shown by the model.

1.  Think: The model is divided into 10 equal parts. Each part represents one tenth.

$\frac{6}{10}$; 0.6

2. 

3. 

4. 

Write the fraction or mixed number as a decimal.

5. $\frac{4}{10}$

6. $3\frac{1}{10}$

7. $\frac{7}{10}$

8. $6\frac{5}{10}$

9. $\frac{9}{10}$

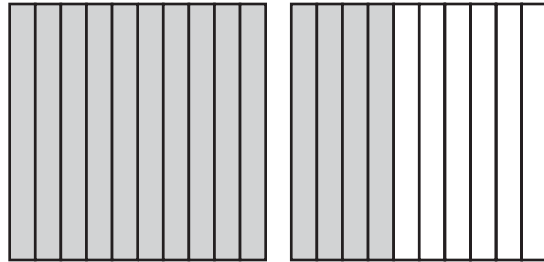
Problem Solving

10. There are 10 sports balls in the equipment closet. Three are kickballs. Write the portion of the balls that are kickballs as a fraction, as a decimal, and in word form.

11. Peyton has 2 pizzas. Each pizza is cut into 10 equal slices. She and her friends eat 14 slices. What part of the pizzas did they eat? Write your answer as a decimal.

Lesson Check (4.NF.6)

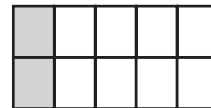
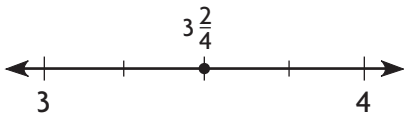
1. Valerie has 10 CDs in her music case. Seven of the CDs are pop music CDs. What is this amount written as a decimal?
2. What decimal amount is modeled below?



Spiral Review (4.OA.4, 4.NF.1, 4.NF.3b)

3. Write one number that is a factor of 13.
4. An art gallery has 18 paintings and 4 photographs displayed in equal rows on a wall, with the same number of each type of art in each row. What could be the number of rows?

5. How do you write the mixed number shown as a fraction greater than 1?
6. What fraction of this model, in simplest form, is shaded?



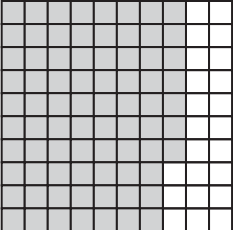
Name _____

Relate Hundredths and Decimals

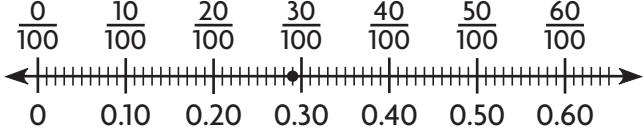


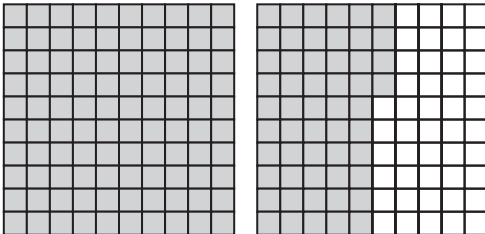
COMMON CORE STANDARD—4.NF.6
Understand decimal notation for fractions, and compare decimal fractions.

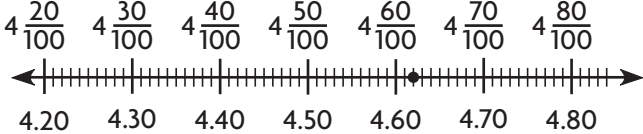
Write the fraction or mixed number and the decimal shown by the model.

1.  Think: The whole is divided into one hundred equal parts, so each part is one hundredth.

$\frac{77}{100}; 0.77$

2. 

3. 

4. 

Write the fraction or mixed number as a decimal.

5. $\frac{37}{100}$

6. $8\frac{11}{100}$

7. $\frac{98}{100}$

8. $25\frac{50}{100}$

9. $\frac{6}{100}$

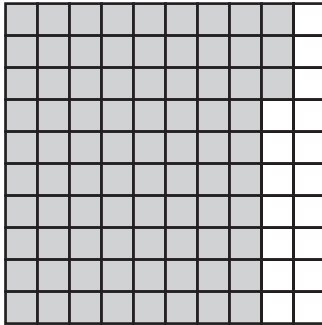
Problem Solving

10. There are 100 pennies in a dollar. What fraction of a dollar is 61 pennies? Write it as a fraction, as a decimal, and in word form.

11. Kylee has collected 100 souvenir thimbles from different places she has visited with her family. Twenty of the thimbles are carved from wood. Write the fraction of thimbles that are wooden as a decimal.

Lesson Check (4.NF.6)

1. What decimal represents the shaded section of the model below?

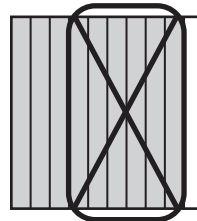


2. There were 100 questions on the unit test. Alondra answered 97 of the questions correctly. What decimal represents the fraction of questions Alondra answered correctly?

Spiral Review (4.OA.5, 4.NF.3b, 4.NF.3d, 4.NF.4c)

3. Write an expression that is equivalent to $\frac{7}{8}$.

4. What is $\frac{9}{10} - \frac{6}{10}$?



5. Misha used $\frac{1}{4}$ of a carton of 12 eggs to make an omelet. How many eggs did she use?

6. Kurt used the rule *add 4, subtract 1* to generate a pattern. The first term in his pattern is 5. Write a number that could be in Kurt's pattern.

Name _____

Equivalent Fractions and Decimals**COMMON CORE STANDARD—4.NF.5**
*Understand decimal notation for fractions,
and compare decimal fractions.***Write the number as hundredths in fraction form and decimal form.**

1. $\frac{5}{10}$

$$\frac{5}{10} = \frac{5 \times 10}{10 \times 10} = \frac{50}{100}$$

Think: 5 tenths is the same as 5 tenths and 0 hundredths. Write 0.50.

$$\frac{50}{100}; 0.50$$

2. $\frac{9}{10}$

3. 0.2

4. 0.8

Write the number as tenths in fraction form and decimal form.

5. $\frac{40}{100}$

6. $\frac{10}{100}$

7. 0.60

Problem Solving

8. Billy walks $\frac{6}{10}$ mile to school each day. Write $\frac{6}{10}$ as hundredths in fraction form and in decimal form.
- _____

9. Four states have names that begin with the letter A. This represents 0.08 of all the states. Write 0.08 as a fraction.
- _____

Lesson Check (4.NF.5)

1. The fourth-grade students at Harvest School make up 0.3 of all students at the school. What fraction is equivalent to 0.3?
2. Kyle and his brother have a marble set. Of the marbles, 12 are blue. This represents $\frac{50}{100}$ of all the marbles. What decimal is equivalent to $\frac{50}{100}$?

Spiral Review (4.OA.5, 4.NF.1, 4.NF.4c, 4.NF.6)

3. Jesse won his race by $3\frac{45}{100}$ seconds. What is this number written as a decimal?
4. Marge cut 16 pieces of tape for mounting pictures on poster board. Each piece of tape was $\frac{3}{8}$ inch long. How much tape did Marge use?
5. Of Katie's pattern blocks, $\frac{9}{12}$ are triangles. What is $\frac{9}{12}$ in simplest form?
6. A number pattern has 75 as its first term. The rule for the pattern is *subtract 6*. What is the sixth term?

Name _____

Relate Fractions, Decimals, and Money



COMMON CORE STANDARD—4.NF.6
Understand decimal notation for fractions, and compare decimal fractions.

Write the total money amount. Then write the amount as a fraction or a mixed number and as a decimal in terms of dollars.

1.



$\$0.18; \frac{18}{100}; 0.18$

2.



Write as a money amount and as a decimal in terms of dollars.

3. $\frac{25}{100}$

4. $\frac{79}{100}$

5. $\frac{31}{100}$

6. $\frac{8}{100}$

7. $\frac{42}{100}$

Write the money amount as a fraction in terms of dollars.

8. \$0.87

9. \$0.03

10. \$0.66

11. \$0.95

12. \$1.00

Write the total money amount. Then write the amount as a fraction and as a decimal in terms of dollars.

13. 2 quarters 2 dimes

14. 3 dimes 4 pennies

15. 8 nickels 12 pennies

Problem Solving



16. Kate has 1 dime, 4 nickels, and 8 pennies. Write Kate's total amount as a fraction in terms of a dollar.

17. Nolan says he has $\frac{75}{100}$ of a dollar. If he only has 3 coins, what are the coins?

Lesson Check (4.NF.6)

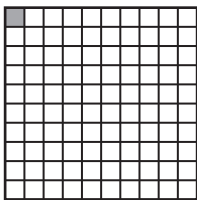
1. Write the total amount of money shown as a fraction in terms of a dollar.
2. Crystal has $\frac{81}{100}$ of a dollar. What could be the coins Crystal has?



Spiral Review (4.NF.1, 4.NF.6)

3. Joel gives $\frac{1}{3}$ of his baseball cards to his sister. Write a fraction that is equivalent to $\frac{1}{3}$.
4. Penelope bakes pretzels. She salts $\frac{3}{8}$ of the pretzels. Write a fraction that is equivalent to $\frac{3}{8}$.

5. What decimal is shown by the shaded area in the model?



6. Mr. Guzman has 100 cows on his dairy farm. Of the cows, 57 are Holstein. What decimal represents the portion of cows that are Holstein?
