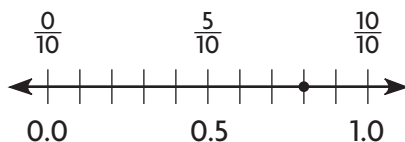


Name _____

Relate Tenths and Decimals

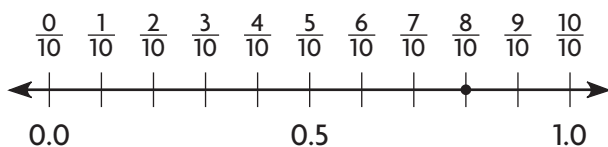
Write the fraction and the decimal that are shown by the point on the number line.



Step 1 Count the number of equal parts of the whole shown on the number line. There are ten equal parts.

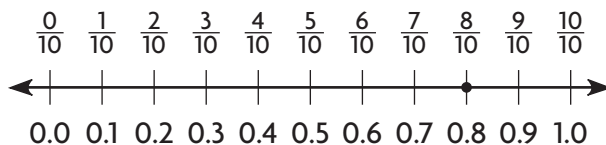
This tells you that the number line shows tenths.

Step 2 Label the number line with the missing fractions. What fraction is shown by the point on the number line?



The fraction shown by the point on the number line is $\frac{8}{10}$.

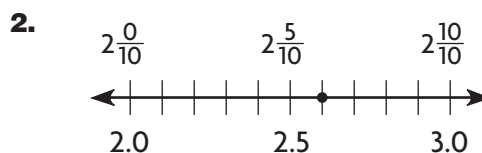
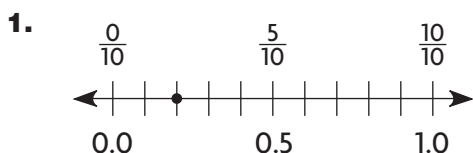
Step 3 Label the number line with the missing decimals. What decimal is shown by the point on the number line?



The decimal shown by the point on the number line is **0.8**.

So, the fraction and decimal shown by the point on the number line are $\frac{8}{10}$ and **0.8**.

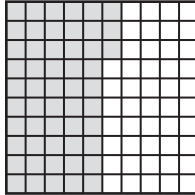
Write the fraction or mixed number and the decimal shown by the model.



Name _____

Relate Hundredths and Decimals

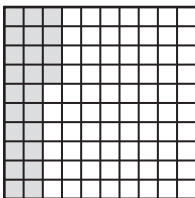
Write the fraction or mixed number and the decimal shown by the model.



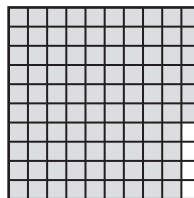
Step 1 Count the number of shaded squares in the model and the total number of squares in the whole model.	Number of shaded squares: 53 Total number of squares: 100
Step 2 Write a fraction to represent the part of the model that is shaded.	$\frac{\text{Number of Shaded Squares}}{\text{Total Number of Squares}} = \frac{53}{100}$ The fraction shown by the model is $\frac{53}{100}$.
Step 3 Write the fraction in decimal form.	Think: The fraction shown by the model is $\frac{53}{100}$. 0.53 names the same amount as $\frac{53}{100}$. The decimal shown by the model is 0.53 .
The fraction and decimal shown by the model are $\frac{53}{100}$ and 0.53 .	

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

1.



2.



Name _____

Equivalent Fractions and Decimals

Lori ran $\frac{20}{100}$ mile. How many tenths of a mile did she run?

Write $\frac{20}{100}$ as an equivalent fraction with a denominator of 10.

Step 1 Think: 10 is a common factor of the numerator and the denominator.

Step 2 Divide the numerator and denominator by 10.

$$\frac{20}{100} = \frac{20 \div 10}{100 \div 10} = \frac{2}{10}$$

So, Lori ran $\frac{2}{10}$ mile.

Use a place-value chart.

Step 1 Write $\frac{20}{100}$ as an equivalent decimal.

Ones	•	Tenths	Hundredths
0	•	2	0

Step 2 Think: 20 hundredths is 2 tenths 0 hundredths

Ones	•	Tenths
0	•	2

So, Lori ran **0.2** mile.

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

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

2. 0.6

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

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

4. $\frac{70}{100}$

5. $\frac{80}{100}$

6. 0.50

Name _____

Relate Fractions, Decimals, and Money

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



Step 1 Count the value of coins from greatest to least. Write the total money amount.



\$0.25 → \$0.35 → \$0.40 → \$0.45 → \$0.50

Step 2 Write the total money amount as a fraction of a dollar.

The total money amount is **\$0.50**, which is the same as **50** cents.

Think: There are **100** cents in a dollar.

So, the total amount written as a fraction of a dollar is:

$$\frac{50 \text{ cents}}{100 \text{ cents}} = \frac{50}{100}$$

Step 3 Write the total money amount as a decimal.

Think: I can write \$0.50 as **0.50**.

The total money amount is $\frac{50}{100}$ written as a fraction of a dollar, and **0.50** written as a decimal.

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

1.



2.



Name _____

Problem Solving • Money

Use the strategy *act it out* to solve the problem.

Jessica, Brian, and Grace earned \$7.50. They want to share the money equally. How much will each person get?

Read the Problem	Solve the Problem
What do I need to find? I need to find the <u>amount of money each person should get</u>.	Show the total amount, <u>\$7.50</u>, using <u>7</u> one-dollar bills and <u>2</u> quarters. 
What information do I need to use? I need to use the total amount, <u>\$7.50</u>, and divide it by <u>3</u>, the number of people sharing the money equally.	Share the one-dollar bills equally.  There is <u>1</u> one-dollar bill left.
How will I use the information? I will use <u>dollar bills and coins</u> to model the total amount and <u>act out the problem</u>.	- Change the dollar bill that is left for <u>4</u> quarters. Now there are <u>6</u> quarters. - Share the quarters equally.  So, each person gets <u>2</u> one-dollar bills and <u>2</u> quarters, or <u>\$2.50</u>.

1. Jacob, Dan, and Nathan were given \$6.90 to share equally. How much money will each boy get?

2. Becky, Marlis, and Hallie each earned \$2.15 raking leaves. How much did they earn together?

Name _____

Add Fractional Parts of 10 and 100

Sam uses 100 glass beads for a project. Of the beads, $\frac{35}{100}$ are gold and $\frac{4}{10}$ are silver. What fraction of the glass beads are gold or silver?

Add $\frac{35}{100}$ and $\frac{4}{10}$.

Step 1 Decide on a common denominator. Use 100.

Step 2 Write $\frac{4}{10}$ as an equivalent fraction with a denominator of 100.

$$\frac{4}{10} = \frac{4 \times 10}{10 \times 10} = \frac{40}{100}$$

Step 3 Add $\frac{35}{100}$ and $\frac{40}{100}$.

$$\frac{35}{100} + \frac{40}{100} = \frac{75}{100}$$

← Add the numerators.

← Use 100 as the denominator.

So, $\frac{75}{100}$ of the glass beads are gold or silver.

Add \$0.26 and \$0.59.

Step 1 Write each amount as a fraction of a dollar.

$$\$0.26 = \frac{26}{100} \text{ of a dollar}$$

$$\$0.59 = \frac{59}{100} \text{ of a dollar}$$

Step 2 Add $\frac{26}{100}$ and $\frac{59}{100}$.

$$\frac{26}{100} + \frac{59}{100} = \frac{85}{100}$$

← Add the numerators.

← 100 is the common denominator.

Step 3 Write the sum as a decimal.

$$\frac{85}{100} = 0.85$$

So, $\$0.26 + \$0.59 = \underline{\$0.85}$.

Find the sum.

1. $\frac{75}{100} + \frac{2}{10} = \underline{\hspace{2cm}}$

2. $\$0.73 + \$0.25 = \$ \underline{\hspace{2cm}}$

$$\frac{73}{100} + \frac{25}{100} = \frac{\boxed{\hspace{1cm}}}{\boxed{\hspace{1cm}}}$$

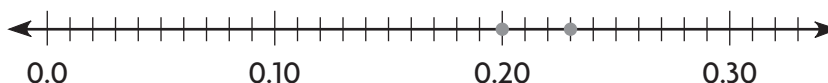
Name _____

Compare Decimals

Alfie found 0.2 of a dollar and Gemma found 0.23 of a dollar.
Which friend found more money?

To compare decimals, you can use a number line.

Step 1 Locate each decimal on a number line.



Step 2 The number farther to the right is greater.

$0.23 > 0.2$, so Gemma found more money.

To compare decimals, you can compare equal-size parts.

Step 1 Write 0.2 as a decimal in hundredths.

0.2 is 2 tenths, which is equivalent to 20 hundredths.

$$0.2 = \underline{0.20}$$

Step 2 Compare.

23 hundredths is greater than 20 hundredths,
so $0.23 > 0.2$.

So, Gemma found more money.

Compare. Write $<$, $>$, or $=$.

1. $0.17 \bigcirc 0.13$ 2. $0.8 \bigcirc 0.08$ 3. $0.36 \bigcirc 0.63$ 4. $0.4 \bigcirc 0.40$

5. $0.75 \bigcirc 0.69$ 6. $0.3 \bigcirc 0.7$ 7. $0.45 \bigcirc 0.37$ 8. $0.96 \bigcirc 0.78$