Fractions as Tenths and Hundredths

Name:

Prerequisite: Identify Equivalent Fractions

Study the example showing how to use a number line to find equivalent fractions. Then solve problems 1–8.



Write each equivalent fraction.

 $\frac{8}{12} =$ _____ $\frac{2}{6} =$ _____ $\frac{3}{12} =$ _____ $\frac{1}{6} =$ _____

- 2 Write three fractions equivalent to $\frac{1}{2}$. Use the number lines above to help you.
- 3 Fill in the missing numbers to find fractions equivalent to $\frac{5}{4}$.





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Solve.

4 Shade the model below to show $\frac{2}{3}$. Then divide the model to show $\frac{2}{3} = \frac{4}{6}$.



5 Look at problem 4. Explain how dividing the model shows the equivalent fractions $\frac{2}{3} = \frac{4}{6}$.

6 Fill in the missing numbers to write equivalent fractions.

$$\frac{2}{2} \times \frac{2}{2} = \frac{2}{4} \qquad \frac{2}{3} \times \frac{2}{3} = \frac{8}{12} \qquad \frac{2}{3} \times \frac{2}{3} = \frac{10}{16}$$

7 Shade the model to show $\frac{1}{2}$. Then divide the model to show $\frac{1}{2} = \frac{5}{10}$.

8 Fill in the missing numbers to show that $\frac{1}{2} = \frac{5}{10}$.

$$\frac{1}{2} \times \boxed{\boxed{}} = \frac{5}{10}$$

Name:

Add Tenths and Hundredths Fractions

Study the example problem showing how to add tenths and hundredths fractions. Then solve problems 1–8.

Example

Jaden found $\frac{8}{10}$ of a dollar in change in his backpack. He found $\frac{15}{100}$ of a dollar in change in his lunch bag. What fraction of a dollar in change did he find altogether? Multiply to find the hundredths $\frac{8}{10} = \left(\frac{8 \times 10}{10 \times 10}\right) = \frac{80}{100}$ fraction equivalent to $\frac{8}{10}$. Add the hundredths fractions. $\frac{80}{100} + \frac{15}{100} = \frac{95}{100}$ Jaden found $\frac{95}{100}$ of a dollar in change.

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

$$\frac{2}{10} = \left(\frac{2 \times 10}{10 \times 10}\right) =$$

2 Fill in the blanks to show how to find the sum



- 3 Look at problem 2. $\frac{10}{100} = \frac{1}{10}$. What is another way that you could show the sum of $\frac{2}{10}$ and $\frac{10}{100}$?
- 4 Look at problems 2 and 3. Are the sums equivalent? Explain.

Solve.

Mila has 100 math problems to finish this week. She solved $\frac{2}{10}$ of the problems on Monday and $\frac{25}{100}$ of the problems on Tuesday.

5 Did Mila solve more problems on Monday or on Tuesday? Explain.

Show your work.

Solution: _____

6 What fraction of the math problems for the week did Mila solve on Monday and Tuesday?

Show your work.

Solution: _____

7 Look at problem 6. Is the sum you found greater or less than $\frac{1}{2}$? Explain.

8 Has Mila completed more than half of her math problems for the week? Explain.

Name:

Fractions as Tenths and Hundredths

Solve the problems.

1 $\frac{3}{10} + \frac{3}{100}$ is equal to which of the following? How many Circle the letter for all that apply. hundredths are in 3 tenths? <u>33</u> 100 **D** $\frac{30}{100} + \frac{3}{100}$ Α 6 100 **E** $\frac{3}{10} + \frac{3}{10}$ В **C** $\frac{60}{100}$ 2 Sylvia has \$100. She spent $\frac{4}{10}$ of her money on a There is more than jacket and $\frac{20}{100}$ of her money on jeans. What fraction one way to solve this of her money did Sylvia spend? problem. $\frac{60}{200}$ **C** $\frac{6}{10}$ Α <u>24</u> 100 **D** $\frac{6}{20}$ В Josh chose **B** as the correct answer. How did he get that answer? 3 Which is greater, $\frac{6}{10}$ or $\frac{6}{100}$? Explain. You can compare the numerators or draw a model to solve this problem.

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Solve.

