

Shelby County Schools  
Extended Learning Day  
Packet



**4th Grade**

# Understand Equivalent Fractions

Name: \_\_\_\_\_

**Prerequisite: How do you know when fractions are equivalent?**



**Study the example showing one way to find equivalent fractions. Then solve problems 1–6.**

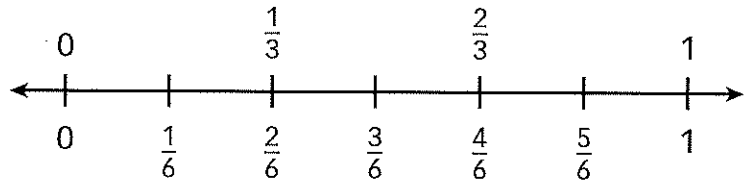
### Example

Find a fraction equivalent to  $\frac{4}{6}$ .

The number line shows both thirds and sixths.

$\frac{4}{6}$  and  $\frac{2}{3}$  are at the same point on the number line.

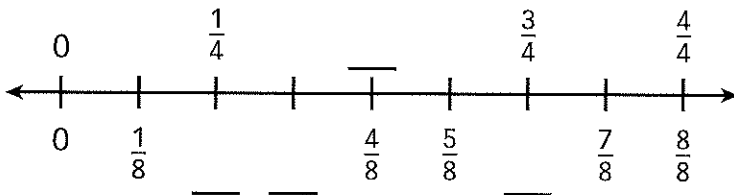
$$\frac{4}{6} = \frac{2}{3}$$



- 1** Look at the number line in the example above. Write a fraction equivalent to  $\frac{2}{6}$ .

$$\frac{2}{6} = \underline{\hspace{2cm}}$$

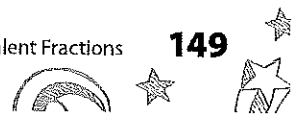
- 2** Fill in the missing fractions on the number line.



- 3** Look at the number line in problem 2.

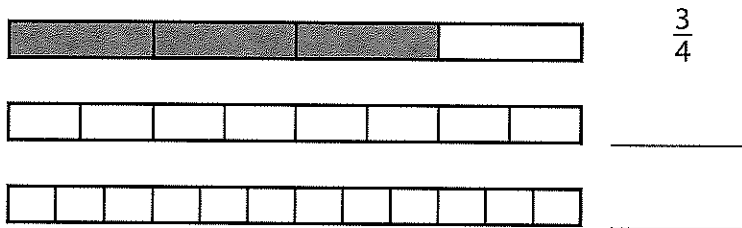
Write equivalent fractions.

$$\frac{1}{4} = \underline{\hspace{2cm}} \quad \underline{\hspace{2cm}} = \frac{4}{8} \quad \frac{3}{4} = \underline{\hspace{2cm}}$$

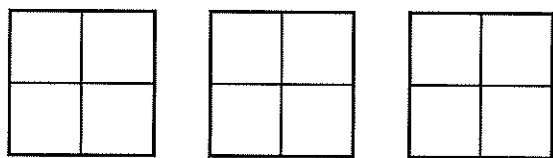


**Solve.**

- 4** Look at the models below. Shade the models to show two fractions equivalent to  $\frac{3}{4}$ . Then write the fractions.



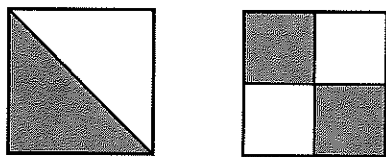
- 5** Use the models below to complete the sentences. The models show wholes and parts. There are 3 wholes, each divided into fourths.



Each part is \_\_\_\_\_ of a whole.

There are \_\_\_\_\_ fourths in all.  $\frac{\square}{\square} = 3$

- 6** Look at the models below. Write the fractions they represent. Are the fractions equivalent? Explain.




---



---



---



---



---

## Show Equivalent Fractions

Study the example showing one way to model equivalent fractions. Then solve problems 1–8.

### Example

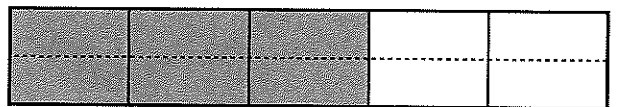
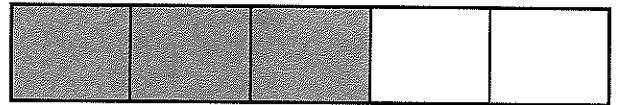
A model can show equivalent fractions.

The model has 5 equal parts. It shows  $\frac{3}{5}$ .

Divide the model into 10 equal parts to show an equivalent fraction.

The model shows  $\frac{6}{10}$ .

$$\frac{3}{5} = \frac{6}{10}$$



- 1 Divide the model below to show  $\frac{1}{2} = \frac{5}{10}$ .



- 2 Draw a model to show  $\frac{1}{6}$ . Then divide the model into twice as many parts to find an equivalent fraction.

$$\frac{1}{6} = \underline{\hspace{2cm}}$$

- 3 Multiply the numerator and denominator of  $\frac{1}{6}$  by 2.

$$\frac{1 \times 2}{6 \times 2} = \underline{\hspace{2cm}}$$

- 4 Why does it make sense that the fraction you wrote in problems 2 and 3 is the same?

---



---



**Solve.**

- 5** Fill in the missing numbers to find two equivalent fractions to  $\frac{4}{5}$ .

$$\frac{4 \times \square}{5 \times 2} = \frac{\square}{10} \quad \frac{4 \times 20}{5 \times 20} = \frac{\square}{100}$$

- 6** Look at problem 5. Explain how  $\frac{8}{10} = \frac{80}{100}$ .

---

---

---

---

---

---

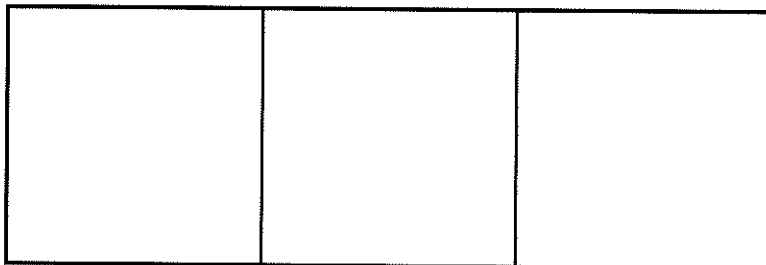
---

---

- 7** Shade the model below to show  $\frac{1}{5}$ . Then show 10 equal parts and write an equivalent fraction.



- 8** Shade the model below to show  $\frac{2}{3}$ . Then show 12 equal parts and write an equivalent fraction.



## Reason and Write

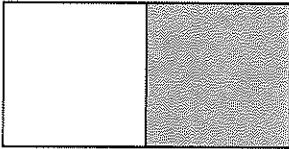
Study the example. Underline two parts that you think make it a particularly good answer and a helpful example.

**Example**

Find a fraction equivalent to  $\frac{1}{2}$  that has a denominator of 12.

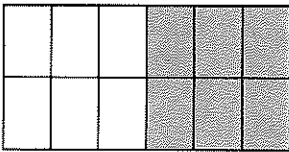
**Show your work.** Use models, words, and numbers to explain your answer.

I draw a model that shows  $\frac{1}{2}$ .



To find an equivalent fraction with a denominator of 12, I divide the model into 12 equal parts. The model shows  $\frac{6}{12}$ .

So  $\frac{1}{2} = \frac{6}{12}$ .



I can also multiply both the numerator and denominator of  $\frac{1}{2}$  by 6 to find an equivalent fraction with a denominator of 12.

$$\frac{1 \times 6}{2 \times 6} = \frac{6}{12}$$

Where does the example...

- use models to show equivalent fractions?
- use numbers to write equivalent fractions?
- use words to explain?



**Solve the problem. Use what you learned from the example.**

Find a fraction equivalent to  $\frac{2}{5}$  that has a denominator of 20.

**Show your work.** Use models, words, and numbers to explain your answer.

Did you...

- use models to show equivalent fractions?
- use numbers to write equivalent fractions?
- use words to explain?



# Multi-Digit Subtraction—Skills Practice

Name: \_\_\_\_\_

Subtract within 10,000.

Form A

$$\begin{array}{r} 1 \quad 4,865 \\ - 2,341 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 1,788 \\ - 1,263 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 2,592 \\ - 1,271 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 7,342 \\ - 4,132 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 8,790 \\ - 6,688 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 3,743 \\ - 626 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 9,487 \\ - 1,394 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 6,427 \\ - 2,515 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 2,637 \\ - 2,419 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 3,780 \\ - 671 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 8,618 \\ - 3,425 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 4,756 \\ - 3,813 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 8,403 \\ - 6,520 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 1,438 \\ - 839 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 4,725 \\ - 1,439 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 7,275 \\ - 4,188 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 5,274 \\ - 2,778 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 2,923 \\ - 1,976 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 5,824 \\ - 2,948 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 6,743 \\ - 2,878 \\ \hline \end{array}$$



# Multi-Digit Subtraction—Skills Practice

Name: \_\_\_\_\_

Subtract within 10,000.

Form B

$$\begin{array}{r} \mathbf{1} \quad 5,647 \\ - 3,210 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 2,748 \\ - 312 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 5,429 \\ - 4,003 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 6,918 \\ - 4,105 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 8,263 \\ - 1,453 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 1,397 \\ - 1,239 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 4,131 \\ - 2,051 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 7,382 \\ - 2,581 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 2,732 \\ - 1,108 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 4,803 \\ - 615 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 8,652 \\ - 3,481 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 3,607 \\ - 2,801 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 8,275 \\ - 2,391 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 3,120 \\ - 1,052 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 9,253 \\ - 198 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{16} \quad 6,732 \\ - 5,587 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{17} \quad 4,366 \\ - 1,568 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{18} \quad 1,812 \\ - 945 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{19} \quad 7,493 \\ - 2,594 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{20} \quad 7,423 \\ - 2,846 \\ \hline \end{array}$$



### 3<sup>rd</sup> grade/Math Educational Websites and Web Resources

Title of Resource	Web Address	Description	Student Access
<b>Khan Academy</b>	<a href="https://www.khanacademy.org">https://www.khanacademy.org</a>	Students will be able to get additional practice with skills in various subjects and test prep.	Students will need to sign up for a free account if they do not already have an account.
<b>Zearn.org</b>	<a href="https://Zearn.org">https://Zearn.org</a>	Students will be able to get additional practice with skills in various subjects and test prep.	Students will need to sign up for a free account if they do not already have an account.
<b>LearnZillion</b>	<a href="https://Learnzillion.org">https://Learnzillion.org</a>	Students will be able to get additional practice with skills in various subjects and test prep.	Students will need to sign up for a free account if they do not already have an account.
<b>AAAmath.org</b>	<b>AAAmath.org</b>	Students will be able to get additional practice with skills in various subjects and test prep.	A student account is not needed to access this website.
<b>ixl.com</b>	<b>ixl.com</b>	Students will be able to get additional practice with skills in various subjects and test prep.	A student account is not needed to access this website.
<b>Adaptedmind.com</b>	<b>Adaptedmind.com</b>	Students will be able to get additional practice with skills in various subjects and test prep.	A student account is not needed to access this website.
<b>Hoodamath.com</b>	<b>Hoodamath.com</b>	Students will be able to get additional practice with skills in various subjects and test prep.	A student account is not needed to access this website.