

Name \_\_\_\_\_

## Solve & Share

Find as many fractions as you can that are equal to  $\frac{1}{3}$ . Write each fraction and use drawings or words to explain your work. *Solve this problem any way you choose.*



## Lesson 10-2

### Equivalent Fractions

TEKS 4.3C Determine if two given fractions are equivalent using a variety of methods.  
Mathematical Process Standards 4.1A, 4.1C, 4.1D, 4.1E, 4.1G

Digital Resources at [PearsonTexas.com](http://PearsonTexas.com)



Solve



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Tools



Games



You can use tools.  
Fraction strips can help you solve this problem. *Show your work in the space above!*

### Look Back!

Justify Explain how two different fractions can both be equivalent to  $\frac{1}{3}$ .

# What Are Some Ways to Name the Same Part of a Whole?

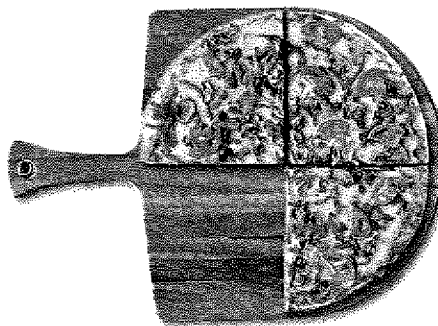
**Equivalent fractions name the same part of a whole. Someone ate part of the pizza shown in the picture.**

James says that  $\frac{3}{4}$  of the pizza is left.

Cardell says that  $\frac{6}{8}$  of the pizza is left.

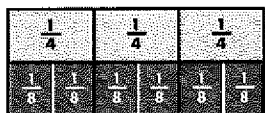
How can you determine if  $\frac{3}{4}$  and  $\frac{6}{8}$  are equivalent fractions?

There is more than one way to determine if two fractions are equivalent.



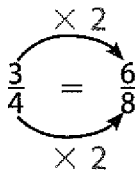
## Find equivalent fractions.

**B** You can use fraction strips to find or determine equivalent fractions.



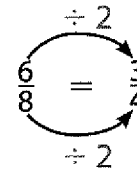
Both  $\frac{3}{4}$  and  $\frac{6}{8}$  name the same part of a whole. So,  $\frac{3}{4}$  and  $\frac{6}{8}$  are equivalent fractions.

**C** You can multiply the numerator and denominator by the same number to find an equivalent fraction.



So,  $\frac{3}{4}$  and  $\frac{6}{8}$  are equivalent fractions.

**D** You can divide the numerator and denominator by the same number to find an equivalent fraction.



So,  $\frac{3}{4}$  and  $\frac{6}{8}$  are equivalent fractions.

## Do You Understand?

**Convince Me!** The model shows that  $\frac{1}{4}$  and  $\frac{2}{8}$  are equivalent fractions. Name another fraction that is equivalent to  $\frac{1}{4}$ . Use the drawing to show that your fraction is equivalent to  $\frac{1}{4}$ .

