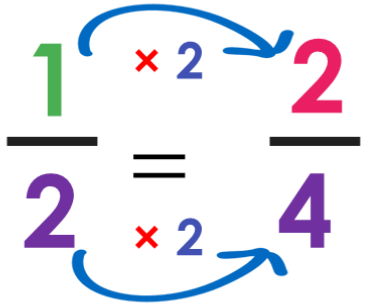
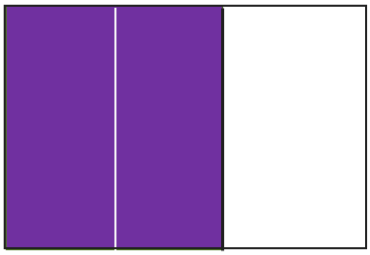
Equivalent fractions have the same value.

- To find **equivalent fractions**, **multiply** or **divide** the **numerator** and **denominator** by the same **whole number**.
  - **Multiply** if **the second given number is larger**.





CFU

To generate an equivalent fraction below, you must

$$\frac{3}{4} = \frac{?}{16}$$

A multiply

B divide

To generate an equivalent fraction, below, you must multiply by

$$\frac{3}{4} = \frac{?}{16}$$

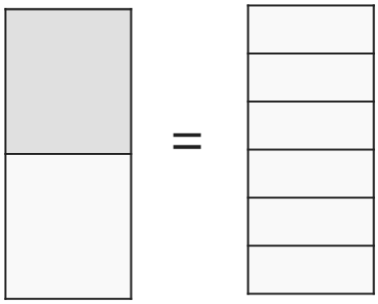
A 4

B 8

1. Look at both fractions.
2. Determine the number to multiply that results in the 2nd given number.
3. Use the same number to multiply the other numerator or denominator.
4. Use a visual to explain why the fractions are equivalent. (color)

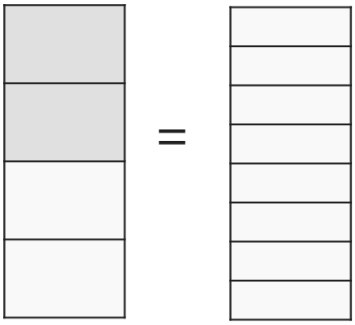
1.

$$\frac{1}{2} = \frac{\quad}{6}$$



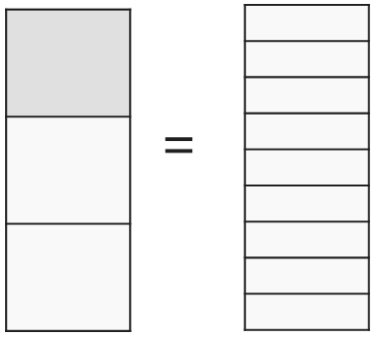
2.

$$\frac{2}{4} = \frac{\quad}{8}$$



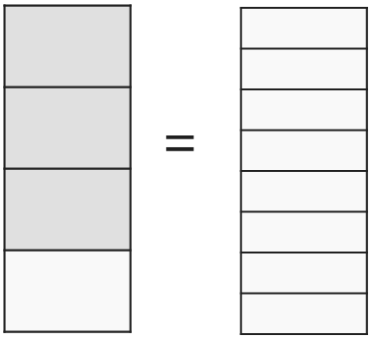
3.

$$\frac{1}{3} = \frac{3}{\quad}$$



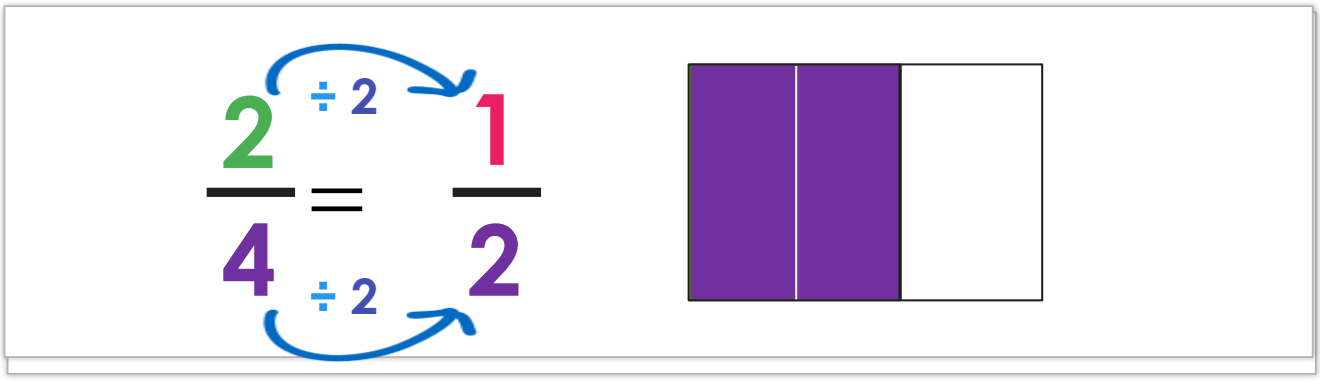
4.

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



Equivalent fractions have the same value.

- To find **equivalent fractions**, **multiply** or **divide** the **numerator** and **denominator** by the same **whole number**.
  - **Multiply** if **the second given number is larger**.
  - **Divide** if **the second given number is smaller**.



CFU

To generate an equivalent fraction below, you must

$$\frac{6}{9} = \frac{?}{3}$$

A multiply

B divide

To generate an equivalent fraction, below, you must divide by

$$\frac{6}{9} = \frac{?}{3}$$

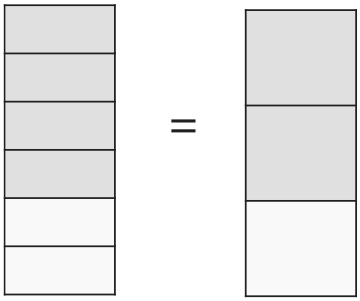
A 2

B 3

1. Look at both fractions.
2. Determine the number to divide that results in the 2nd given number.
3. Use the same number to divide the other numerator or denominator.
4. Use a visual to explain why the fractions are equivalent. (color)

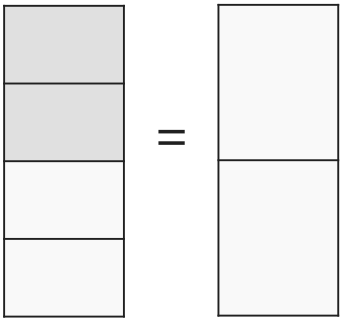
1.

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



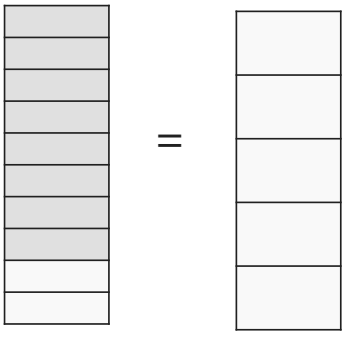
2.

$$\frac{2}{4} = \frac{\quad}{2}$$



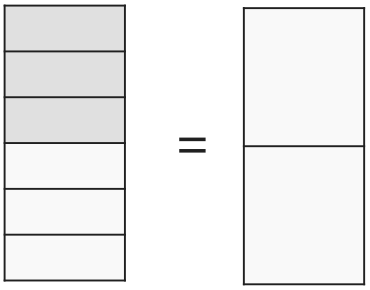
3.

$$\frac{8}{10} = \frac{4}{\quad}$$



4.

$$\frac{3}{6} = \frac{1}{\quad}$$



Skill Closure

1 Look at both fractions.
2 Multiply or divide a numbers that results in the 2nd given number.
3 Use the same number to multiply the other numerator or denominator.

1.

$$\frac{2}{5} = \frac{\quad}{10}$$

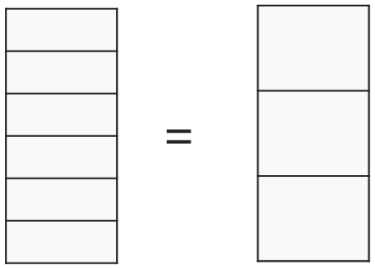
2.

$$\frac{12}{15} = \frac{\quad}{5}$$

Concept Closure

Write an explanation. Andrew thinks that these two fractions are equivalent. Use the area to determine if he is correct.

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



Summary Closure

What did you learn today about generating equivalent fractions?

Word Bank
equivalent
fractions
same
value
location
area

1. Look at the denominator.
2. Determine the common denominator.
3. Apply the common denominator to the left fraction.
4. Generate an equivalent fraction.

1. $\frac{3}{12} = \frac{\quad}{4}$

2. $\frac{5}{6} = \frac{\quad}{12}$

3. $\frac{8}{18} = \frac{4}{\quad}$

4. $\frac{1}{4} = \frac{3}{\quad}$

5. $\frac{2}{4} = \frac{\quad}{2}$

6. $\frac{2}{6} = \frac{\quad}{3}$

Find equivalent fractions.

1. $\frac{4}{5} = \frac{\quad}{10}$

2. $\frac{10}{20} = \frac{\quad}{10}$

3. $\frac{6}{8} = \frac{3}{\quad}$

4. $\frac{1}{10} = \frac{2}{\quad}$

5. $\frac{8}{20} = \frac{\quad}{10}$

6. $\frac{4}{6} = \frac{8}{\quad}$

Which equivalent fractions are correct? Box.
Explain why the others are not correct.

7. $\frac{6}{10} \overset{\times 4}{=} \frac{24}{40}$

8. $\frac{4}{12} \overset{\div 2}{=} \frac{2}{4}$

9. $\frac{4}{8} \overset{\div 2}{=} \frac{1}{4}$

10. $\frac{4}{6} \overset{\times 4}{=} \frac{16}{24}$

Find equivalent fractions.

1. $\frac{6}{10} = \frac{\quad}{40}$

2. $\frac{4}{12} = \frac{2}{\quad}$

3. $\frac{4}{8} = \frac{\quad}{4}$

4. $\frac{4}{6} = \frac{16}{\quad}$

5. $\frac{9}{12} = \frac{\quad}{4}$

6. $\frac{5}{6} = \frac{15}{\quad}$

Solve and interpret the equivalent fractions.

7. Clare is making fruit baskets. She wants to place four apples and six bananas in every gift basket. If she has 24 bananas, how many apples does she need to make the baskets?

$\frac{4}{6} = \frac{\quad}{24}$

8. A recipe calls for five cups of raisins and six cups of nuts. If Lester uses 12 cups of nuts, how many cups of raisins does he need to use in the recipe?

$\frac{5}{6} = \frac{\quad}{12}$

Find equivalent fractions.

1. $\frac{7}{8} = \frac{14}{\quad}$

2. $\frac{6}{10} = \frac{\quad}{5}$

3. $\frac{10}{20} = \frac{5}{\quad}$

4. $\frac{3}{6} = \frac{\quad}{12}$

5. $\frac{6}{9} = \frac{\quad}{3}$

6. $\frac{2}{5} = \frac{\quad}{10}$

Solve and interpret the equivalent fractions.

7. It costs $18 to buy 16 tokens. If you only have $9, how many tokens can you get?

$$\frac{16}{18} = \frac{\quad}{9}$$

8. The park ranger puts 20 sunfish for every 30 perch into the pond. If he only puts in 15 perch, how many sunfish would the park ranger put in?

$$\frac{20}{30} = \frac{\quad}{15}$$