

Finding Equivalent Fractions

Lesson 14

In Focus

$$6 \div 2$$



Ravi

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

$$8 \div 2$$

$$6 \div 2$$



Amira

$$\frac{6}{8} = \frac{3}{4}$$

$$8 \div 2$$



Emma

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

$$6 \times 2$$

$$8 \times 2$$



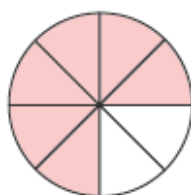
Sam

$$\frac{6}{8} = \frac{12}{16}$$

Who is correct?

Let's Learn

1



$$\frac{6}{8}$$



$$\frac{3}{8}$$

$\frac{6}{8}$ is more than $\frac{3}{8}$.

$\frac{6}{8}$ is not equal to $\frac{3}{8}$.

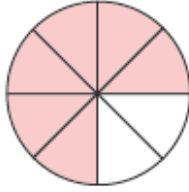
Ravi is not correct.

Why are they correct?

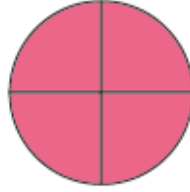


$$\frac{6}{8} > \frac{3}{8}$$

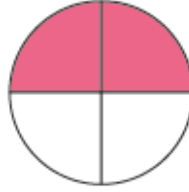
2



$$\frac{6}{8}$$



$$\frac{6}{4}$$



$\frac{6}{8}$ is less than 1.

$\frac{6}{4}$ is more than 1.

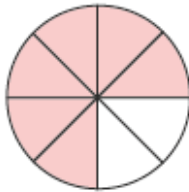
$\frac{6}{8}$ is not equal to $\frac{6}{4}$.

Emma is not correct.

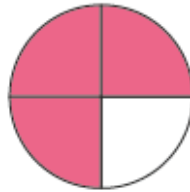


$$\frac{6}{8} < \frac{6}{4}$$

3



$$\frac{6}{8}$$



$$\frac{3}{4}$$

$\frac{6}{8}$ is equal to $\frac{3}{4}$.

$$\frac{6}{8} = \frac{3}{4}$$

They are equivalent fractions.

$\frac{3}{4}$ is the simplest form of $\frac{6}{8}$.

Amlra is correct.

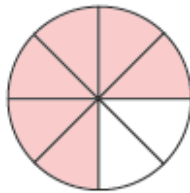


What do you divide 6 by to get 3?
What do you divide 8 by to get 4?

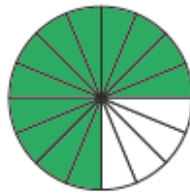
$$\frac{6}{8} = \frac{3}{4}$$

Remember whatever you divide the numerator by you must always divide the denominator by the same amount.

4



$$\frac{6}{8}$$



$$\frac{12}{16}$$



Is $\frac{6}{8}$ the simplest form?

$\frac{6}{8}$ is equal to $\frac{12}{16}$.

$$\frac{6}{8} = \frac{12}{16}$$

They are equivalent fractions.
Sam is correct.



$$\frac{6}{8} = \frac{12}{16}$$

What do you multiply 6 by to get 12?
What do you multiply 8 by to get 16?
You must multiply the numerator and denominator by the same number or you will not get an equivalent fraction.

Guided Practice

- 1 List the first 8 equivalent fractions of $\frac{3}{4}$.

$$\frac{3}{4} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

- 2 Find the missing numbers.

(a) $\frac{1}{2} = \frac{\boxed{}}{6}$ (b) $\frac{3}{5} = \frac{12}{\boxed{}}$ (c) $\frac{\boxed{}}{9} = \frac{2}{3}$ (d) $\frac{5}{\boxed{}} = \frac{20}{24}$

- 3 Express each fraction in its simplest form.

(a) $\frac{3}{9} = \frac{\boxed{}}{\boxed{}}$ (b) $\frac{6}{8} = \frac{\boxed{}}{\boxed{}}$ (c) $\frac{10}{12} = \frac{\boxed{}}{\boxed{}}$ (d) $\frac{18}{24} = \frac{\boxed{}}{\boxed{}}$

Name: _____ Class: _____ Date: _____

Worksheet 14

Finding Equivalent Fractions

1 Write each fraction in its simplest form.

(a) \div

$$\frac{8}{12} = \frac{2}{\boxed{}}$$

\div

(b) \div

$$\frac{6}{8} = \frac{3}{\boxed{}}$$

\div

(c) $\frac{10}{12} = \frac{5}{\boxed{}}$

(d) $\frac{4}{6} = \frac{2}{\boxed{}}$

2 Fill in the missing numbers.

(a) $\frac{1}{2} = \frac{3}{\boxed{}}$

(b) $\frac{6}{7} = \frac{\boxed{}}{14}$

(c) $\frac{5}{\boxed{}} = \frac{15}{24}$

(d) $\frac{\boxed{}}{5} = \frac{16}{20}$

(e) $\frac{\boxed{}}{5} = \frac{10}{25}$

(f) $\frac{1}{7} = \frac{5}{\boxed{}}$



Name: _____ Class: _____ Date: _____

Worksheet 14**Finding Equivalent Fractions****1** Write each fraction in its simplest form.

(a) $\div \boxed{4}$

$$\frac{8}{12} = \frac{2}{\boxed{3}}$$

$\div \boxed{4}$

(b) $\div \boxed{2}$

$$\frac{6}{8} = \frac{3}{\boxed{4}}$$

$\div \boxed{2}$

(c) $\frac{10}{12} = \frac{5}{\boxed{6}}$

(d) $\frac{4}{6} = \frac{2}{\boxed{3}}$

2 Fill in the missing numbers.

(a) $\frac{1}{2} = \frac{3}{\boxed{6}}$

(b) $\frac{6}{7} = \frac{\boxed{12}}{14}$

(c) $\frac{5}{\boxed{8}} = \frac{15}{24}$

(d) $\frac{\boxed{4}}{5} = \frac{16}{20}$

(e) $\frac{\boxed{2}}{5} = \frac{10}{25}$

(f) $\frac{1}{7} = \frac{5}{\boxed{35}}$