

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

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

6×2

8×2



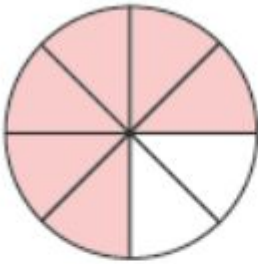
Sam

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

Who is correct?

Let's Learn

1



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



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

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

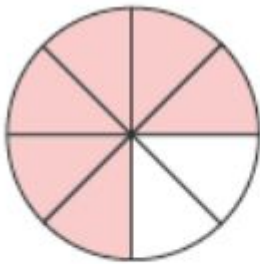
$\frac{6}{8}$ is not equal to $\frac{3}{8}$.

Ravi is not correct.

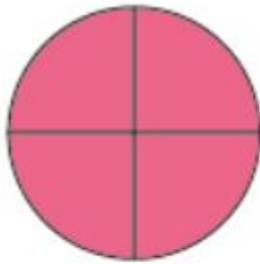


$$\frac{6}{8} > \frac{3}{8}$$

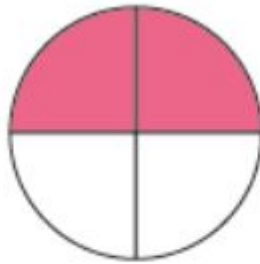
2



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



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



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

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

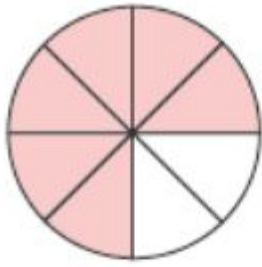
$\frac{6}{8}$ is not equal to $\frac{6}{4}$.

Emma is not correct.

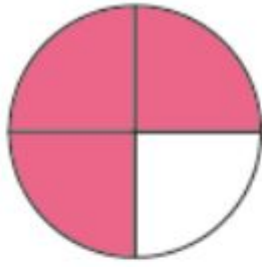


$$\frac{6}{8} < \frac{6}{4}$$

3



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



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

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

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



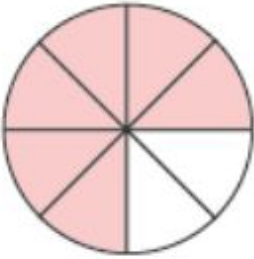
$$\frac{6}{8} = \frac{3}{4}$$

They are equivalent fractions.

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

Amlra is correct.

4



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



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



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

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

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



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

They are equivalent fractions.

Sam is correct.

Guided Practice

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

$$\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{15}{20} = \frac{18}{24} = \frac{21}{28} = \frac{24}{32} = \frac{27}{36}$$

- 2 Find the missing numbers.

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

- 3 Express each fraction in its simplest form.

(a) $\frac{3}{9} = \frac{1}{3}$ (b) $\frac{6}{8} = \frac{3}{4}$ (c) $\frac{10}{12} = \frac{5}{6}$ (d) $\frac{18}{24} = \frac{3}{4}$

Worksheet 14

Finding Equivalent Fractions

- 1 Write each fraction in its simplest form.

a)

$\div 4$



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



$\div 4$

To solve this answer, I looked at what I know. I know the whole of the first fraction, but only the numerator of the second fraction.

I then identify what I notice about this. I notice that the numerator has been divided by 4. I know this because 2 goes into 8, four times and 8 shared between 4 is 2.

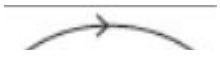
From my learning on equivalent fractions, I know that whatever you do to the numerator, you also do to the denominator. So I know I must now divide my denominator by 4 as well.

So $12 \div 4 = 3$.

Therefore, my answer is $\frac{2}{3}$.

b)

÷



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



÷

c) $\frac{10}{12} = \frac{5}{?}$

d) $\frac{4}{6} = \frac{2}{?}$

2 Fill in the missing numbers.

a) $\frac{1}{2} = \frac{3}{?}$

b) $\frac{6}{7} = \frac{?}{14}$

c) $\frac{5}{?} = \frac{15}{24}$

d) $\frac{?}{5} = \frac{16}{20}$

e) $\frac{?}{5} = \frac{10}{25}$

f) $\frac{1}{7} = \frac{5}{?}$