

19/1/21

Finding the Simplest Fraction

In Focus

$$\frac{8}{12}$$



What are some fractions equal to $\frac{8}{12}$?

Explore this

Let's Learn

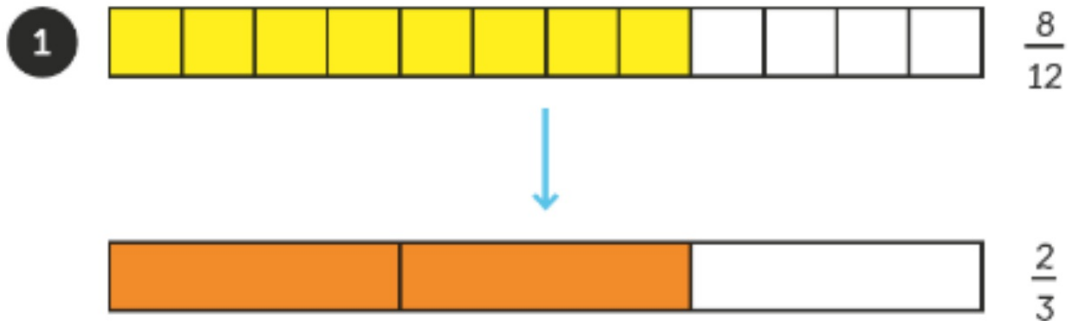
1



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

Do you notice anything special between $\frac{8}{12}$ and $\frac{2}{3}$?

Let's Learn

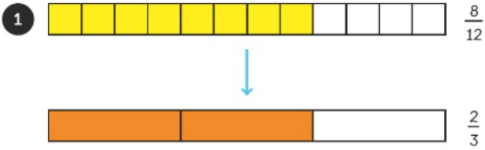


$$\frac{8}{12} = \frac{2}{3}$$

Do you notice anything special between $\frac{8}{12}$ and $\frac{2}{3}$?

Think about using multiplication and division to show the special relationship.

Let's Learn



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

What do you notice?

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

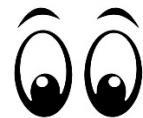


$8 \div \square = 2$
 $12 \div \square = 3$

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



$2 \times \square = 8$
 $3 \times \square = 12$



Watch video clip "Explanation 1"

2



$$\frac{8}{12} = \frac{4}{6} = \frac{2}{3}$$

We say $\frac{2}{3}$ is the simplest form of $\frac{8}{12}$.

What do you notice?



2



$$\frac{8}{12} = \frac{4}{6} = \frac{2}{3}$$

What do you notice?



We say $\frac{2}{3}$ is the simplest form of $\frac{8}{12}$.

👀👀 Watch video clip "Explanation 2"

Activity Time

Work in pairs.

- ① Shuffle the cards. Put each card face down on the table.
- ② Take turns to turn over 2 cards.
- ③ If the cards you turn over show equivalent fractions, keep the cards.

What you need:



$\frac{1}{3}$ and $\frac{2}{6}$ are equivalent fractions.

If the cards do not show equivalent fractions, turn the cards back.

- ④ Repeat until no cards are left. The player with the most cards wins!

Take your time to work out the answer with your partner.

Show your working out or explain your understanding.

Answers

$\frac{1}{6}$	$\frac{3}{6}$	$\frac{2}{12}$	$\frac{1}{9}$
$\frac{3}{12}$	$\frac{6}{12}$	$\frac{1}{4}$	$\frac{2}{18}$
$\frac{2}{6}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{3}{9}$
$\frac{1}{2}$	$\frac{2}{8}$	$\frac{1}{4}$	$\frac{2}{4}$

Guided Practice

- 1 Give three fractions that are equal to $\frac{6}{12}$.



- 2 Write each fraction in its simplest form.

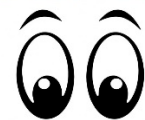
(a) $\frac{3}{12} =$

(b) $\frac{9}{12} =$

(c) $\frac{8}{12} =$

Guided Practice

- 1 Give three fractions that are equal to $\frac{6}{12}$.



Watch video clip "Explanation 3"

2 Write each fraction in its simplest form.

(a) $\frac{3}{12} =$

(b) $\frac{9}{12} =$

(c) $\frac{8}{12} =$



Watch video clip "Explanation 3"

Worksheet 13

Finding the Simplest Fraction

Write each fraction in its simplest form.



$$\frac{4}{10} = \frac{\boxed{-}}{\boxed{5}}$$



$$\frac{6}{12} = \frac{\boxed{-}}{\boxed{6}} = \frac{\boxed{-}}{\boxed{2}}$$

(c) $\frac{4}{8} = \frac{\boxed{-}}{\boxed{2}}$

(d) $\frac{6}{9} = \boxed{}$

(e) $\frac{4}{12} = \frac{\boxed{-}}{\boxed{6}} = \frac{\boxed{-}}{\boxed{3}}$

(f) $\frac{3}{6} = \boxed{}$

Can we put them into groups of 2?



Comp
works!