

06.01.21

L.O: To identify equivalent fractions

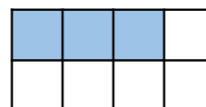
- 1) List the factors of 15

- 2) How much warmer was it on Tuesday than Friday?

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	12°C	19°C	11°C	15°C	13°C

- 3) Calculate $3,985 - 1,629$

- 4) What fraction of the rectangle is shaded?



Equivalent Fractions

Equivalent fractions have different numerators and denominators but share the same value.

Key Vocabulary

- numerator
- denominator
- equivalent
- mixed number
- improper fraction



• **Proper fractions** have a numerator (top number) less than its denominator (bottom number).

Examples: $\frac{4}{7}$, $\frac{2}{3}$.

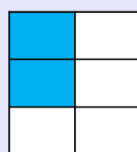
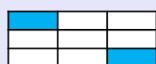
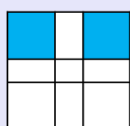
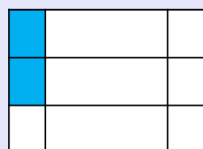
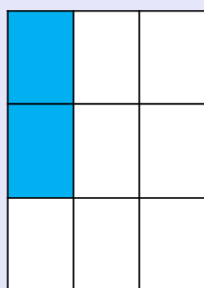
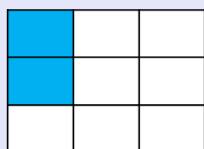
• **Improper fractions** have a numerator (the top number) greater than its denominator (the bottom number).

Examples: $\frac{9}{8}$, $\frac{20}{13}$.

• **Mixed numbers** consist of a whole number and a proper fraction together.

Examples: $3\frac{2}{5}$, $2\frac{7}{11}$.

Which images show $\frac{2}{9}$?



$\frac{2}{9}$ is 2 of 9 equal parts.

I do

Key Vocabulary

- numerator
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Equivalent Fractions

Equivalent fractions have different numerators and denominators but share the same value.

$$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$$

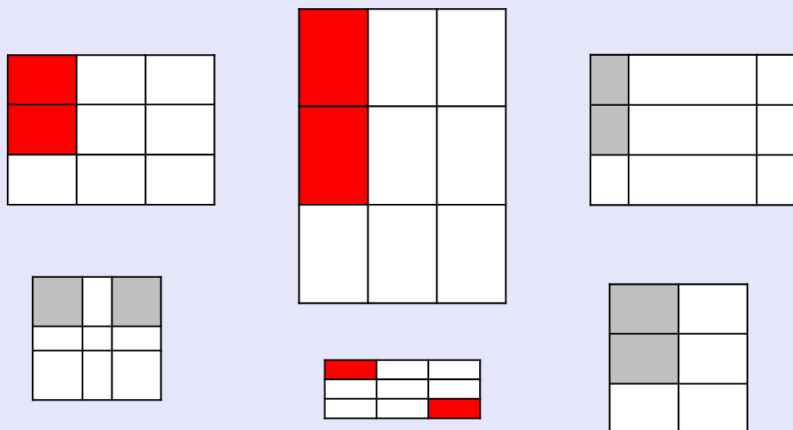
If you multiply or divide the numerator and denominator of a fraction by the same number, the new fraction will be equivalent.



$$\frac{24}{26} \div 2 = \frac{12}{13}$$

Which images show $\frac{2}{9}$?

I do



$\frac{2}{9}$ is 2 of 9 equal parts.

Key Vocabulary

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$$\frac{24}{26} \div 2 = \frac{12}{13}$$

How many boxes do I need to shade to show $\frac{2}{6}$ of this shape?

What if I double the number of boxes, How many Boxes do I need to shade now?

We do

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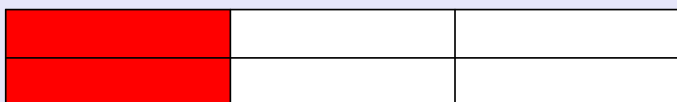
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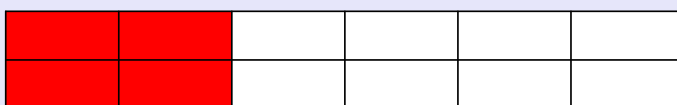


$$\frac{24}{26} \div 2 = \frac{12}{13}$$

What is $\frac{2}{6}$ of this shape



$$\frac{2}{6}$$



$$\frac{4}{12}$$

We do

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Equivalent Fractions

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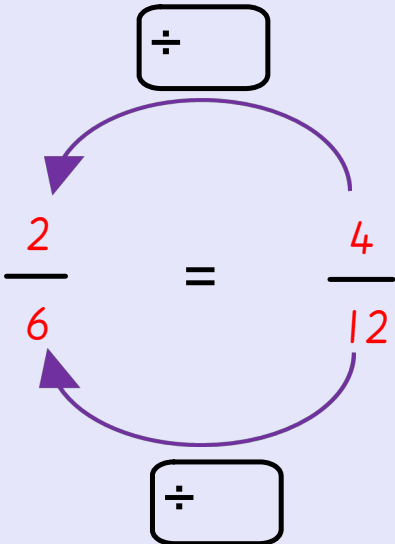
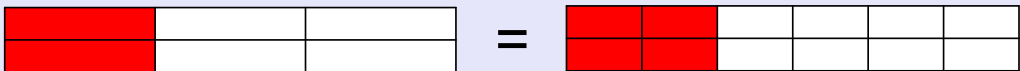
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Key Vocabulary

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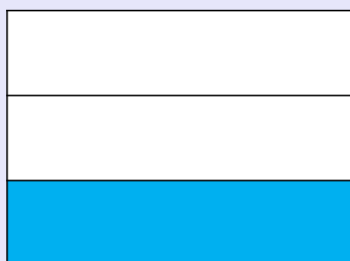
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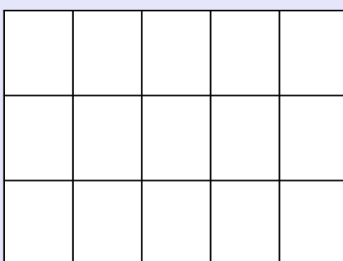
$$\frac{24}{26} \div 2 = \frac{12}{13}$$

Colour the second image to show an equivalent fraction.

Write the fractions underneath.



=



=



We do

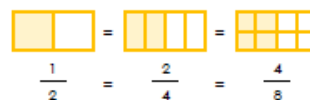
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If you multiply or divide the numerator and denominator of a fraction by the same number, the new fraction will be equivalent.



$$\frac{24}{26} \div 2 = \frac{12}{13}$$

We do

What are the missing equivalent Fractions

$$\frac{1}{3} = \frac{\quad}{\quad} \stackrel{\times 2}{=} \frac{\quad}{\quad} \stackrel{\times 3}{=} \frac{\quad}{\quad} \stackrel{\times 4}{=} \frac{\quad}{\quad} = \frac{5}{15}$$

Key Vocabulary

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Equivalent Fractions

Equivalent fractions have different numerators and denominators but share the same value.

$$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$$

If you multiply or divide the numerator and denominator of a fraction by the same number, the new fraction will be equivalent.



$$\frac{24}{26} \div 2 = \frac{12}{13}$$

You Do

Copy and continue these equivalent fraction patterns.

- 1). $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \underline{\quad} = \underline{\quad} = \underline{\quad}$ 2). $\frac{1}{6} = \frac{2}{12} = \frac{3}{18} = \frac{4}{24} = \underline{\quad} = \underline{\quad} = \underline{\quad}$
- 3). $\frac{1}{10} = \frac{2}{20} = \frac{3}{30} = \frac{4}{40} = \underline{\quad} = \underline{\quad} = \underline{\quad}$ 4). $\frac{1}{12} = \frac{2}{24} = \frac{3}{36} = \frac{4}{48} = \underline{\quad} = \underline{\quad} = \underline{\quad}$

Copy the question, then fill in the missing number for these equivalent fractions.

- 1). $\frac{2}{3} = \frac{\quad}{12}$ 2). $\frac{4}{5} = \frac{\quad}{30}$ 3). $\frac{1}{3} = \frac{\quad}{18}$ 4). $\frac{2}{5} = \frac{\quad}{45}$ 5). $\frac{3}{7} = \frac{\quad}{35}$

Sort the fractions into the groups.

Equivalent to $\frac{1}{4}$				Equivalent to $\frac{1}{3}$			
$\frac{5}{15}$	$\frac{2}{6}$	$\frac{3}{12}$	$\frac{6}{24}$	$\frac{8}{24}$	$\frac{5}{20}$	$\frac{4}{12}$	$\frac{2}{8}$