

Lesson 5: Using the Equivalent Fraction Selector Slide

Time allowed: 30 mins

Worksheets: 15-18

Intended outcomes:

- For the student to be able to identify multiple equivalent fractions from a single common fraction.
- Students will be able to find the missing denominator or numerator to complete the equivalent fractions.

Curriculum standards:

US 3.NF.3ab Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size
4.NF.1 Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction mode
Aust ACMNA077 Investigate equivalent fractions used in contexts
UK UKS2yr5 compare and order fractions whose denominators are all multiples of the same number

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Equivalent Fractions - Using the Denominator Selector

Some of the equivalent fractions can be found by multiplying the original fraction by different numbers:

$$\frac{5}{6} = \frac{10}{12} = \frac{15}{18} = \frac{20}{24} = \frac{25}{30} = \frac{30}{36}$$

$\underbrace{\hspace{1.5cm}}_{\times 2}$
 $\underbrace{\hspace{2.5cm}}_{\times 3}$
 $\underbrace{\hspace{3.5cm}}_{\times 4}$
 $\underbrace{\hspace{4.5cm}}_{\times 5}$
 $\underbrace{\hspace{5.5cm}}_{\times 6}$

Write



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$$\frac{5}{8} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

These fractions have many equivalent fractions. Use the denominator selector to explore these.

$$\frac{1}{2} = \frac{1}{4} = \frac{1}{6} = \frac{1}{8} = \frac{1}{10} = \frac{1}{12} = \frac{1}{20} = \frac{1}{50} = \frac{1}{90} = \frac{1}{98} = \frac{1}{100}$$

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

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Equivalent Fractions - Multiplying or Dividing Pieces A

Steps to finding an equivalent fraction:

- Multiply or divide both the numerator and the denominator by the same number.

Rule: Whatever you do to the top you do to the bottom.

E.g.

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

x4 x4

To find the missing numerator, work out what the relationship between the denominators is. To get to 12 the 3 was multiplied by 4. So multiply the 2 by 4.

$$\frac{6}{15} = \frac{2}{5}$$

÷3 ÷3

The 6 was divided by 3, so 15 is divided by 3.

Find

1.

2.

3.

4.

5.

6.

$$\frac{4}{18} = \frac{2}{9}$$

÷2 ÷2

$$\frac{15}{25} = \frac{3}{5}$$

÷5 ÷5

$$\frac{5}{6} = \frac{15}{18}$$

x3 x3

10.

11.

12.

$$\frac{2}{5} = \frac{8}{20}$$

x4 x4

$$\frac{2}{5} = \frac{10}{25}$$

x5 x5

$$\frac{18}{21} = \frac{6}{7}$$

÷3 ÷3



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