



Making Equivalent Fractions



To Make Equivalent Fractions

- Multiply the numerator and denominator by the same number.
- You will get a new fraction with the same value as the original fraction.
- We are not changing the value of the fraction, because we are simply multiplying by a fraction that is equivalent to ONE.

What do you get when you multiply a number by 1?

You get that number!

$$5 \times 1 = 5$$

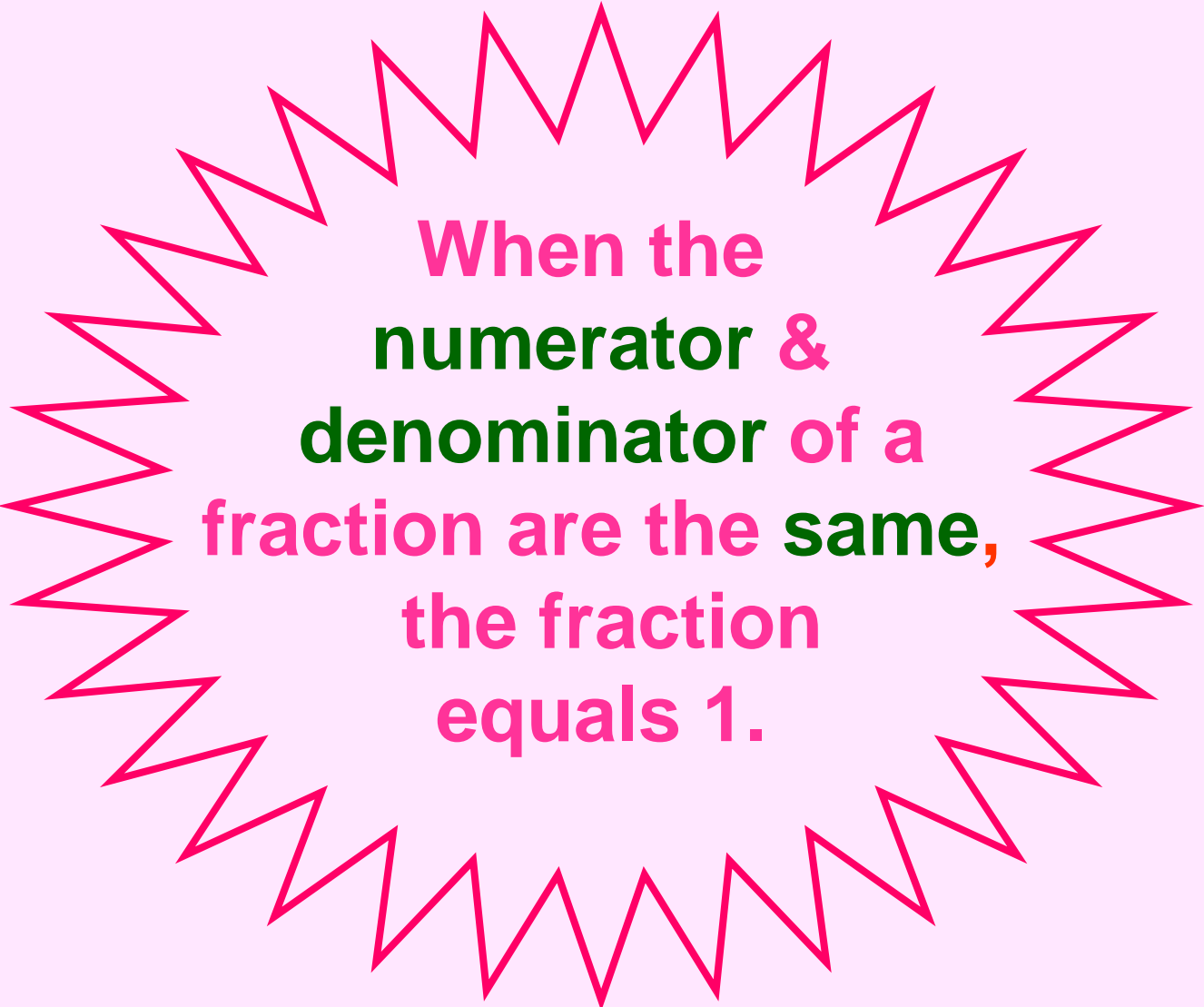
$$7 \times 1 = 7$$

$$37 \times 1 = 37$$

$$23 \times 1 = 23$$

$$17 \times 1 = 17$$

All these fractions = 1



When the
numerator &
denominator of a
fraction are the **same**,
the fraction
equals 1.

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

$$\frac{7}{7}$$

$$\frac{33}{33}$$

$$\frac{5}{5}$$

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

**What do you get when you multiply
a fraction by 1?**

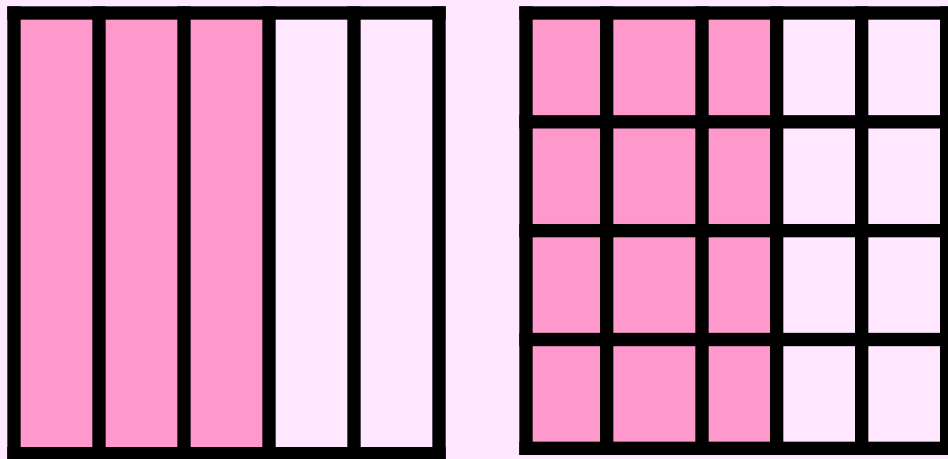
You get

AN EQUIVALENT FRACTION

**that makes
adding & subtracting fractions
possible.**

$$\frac{\boxed{3}}{\boxed{5}} \times \frac{\boxed{4}}{\boxed{4}} = \frac{\boxed{12}}{\boxed{20}}$$

This fraction equals 1.

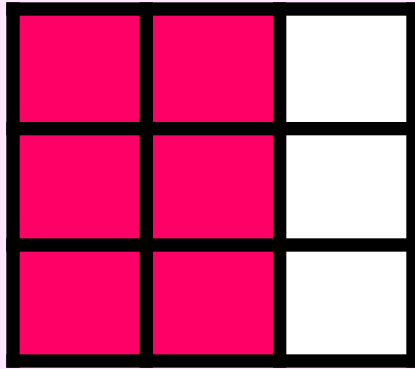
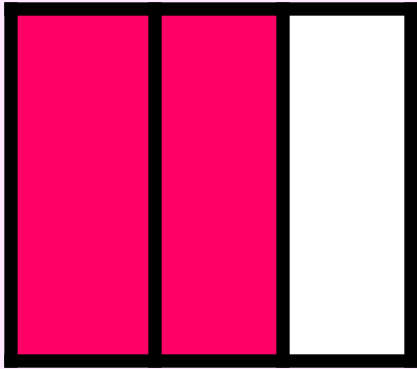


$$\frac{\boxed{3}}{\boxed{5}} = \frac{\boxed{12}}{\boxed{20}}$$

These fractions represent the same amount.

$$\frac{2}{3} \times \frac{3}{3} = \frac{6}{9}$$

This fraction equals 1.

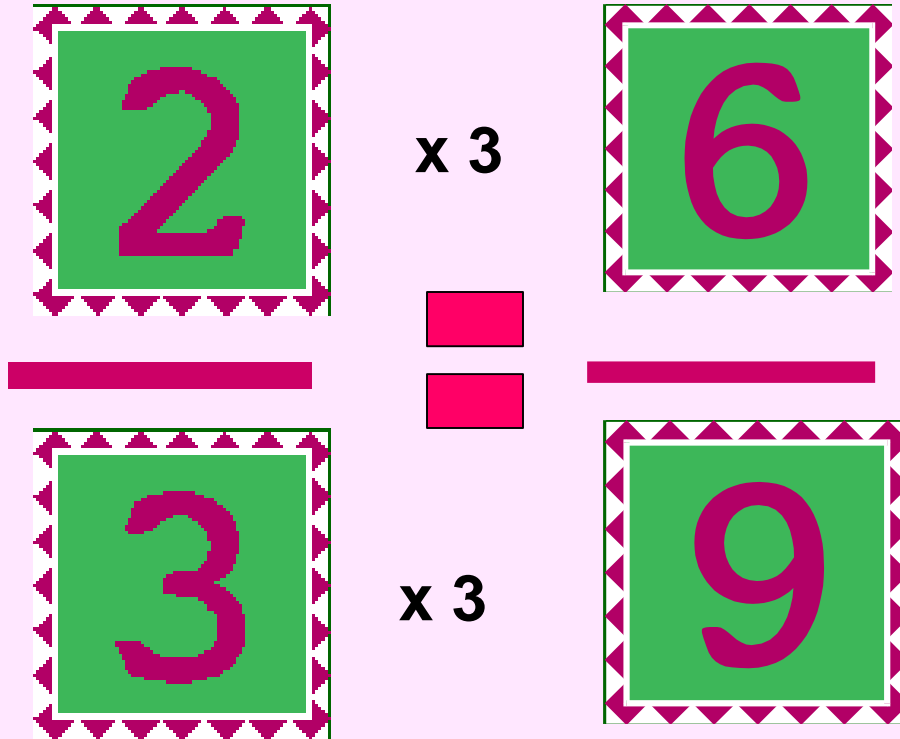


$$\frac{2}{3} = \frac{6}{9}$$

These fractions represent the same amount.

Make An Equivalent Fraction

Find the Missing Numerator!



Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

3

Make An Equivalent Fraction

Find the Missing Numerator!

$$\frac{4}{9} \times 4 = \frac{16}{36}$$

Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

4

Make An Equivalent Fraction

Find the Missing Numerator!

$$\begin{array}{r} \boxed{5} \\ \hline \boxed{8} \end{array} \quad \begin{array}{l} \times 9 \\ \boxed{} \\ \boxed{} \\ \times 9 \end{array} \quad \begin{array}{r} \boxed{4} \boxed{5} \\ \hline \boxed{7} \boxed{2} \end{array}$$

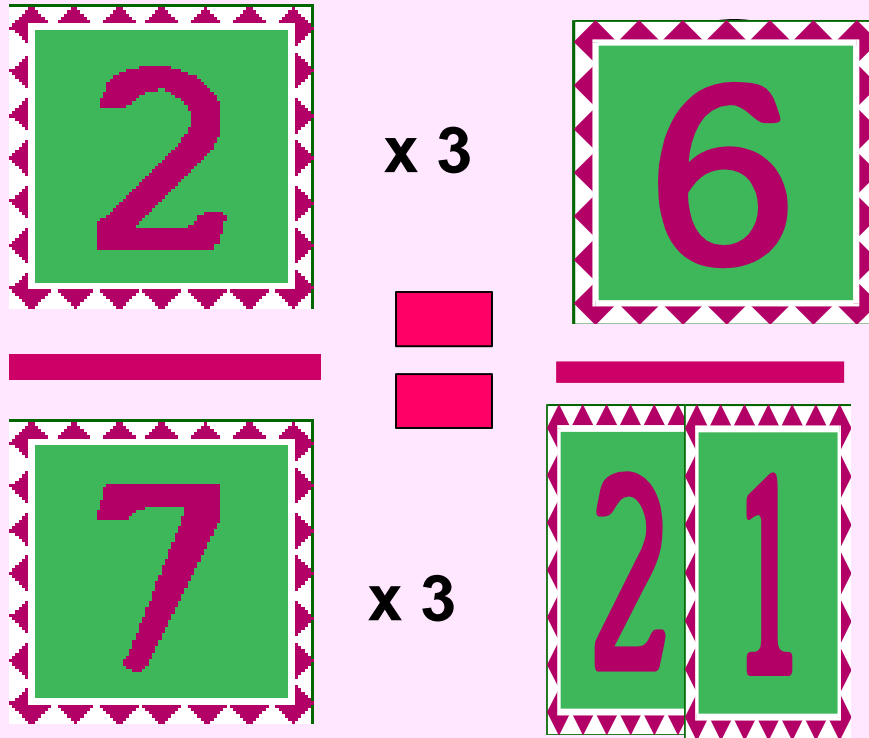
Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

9

Make An Equivalent Fraction

Find the Missing Numerator!











Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

3

Make An Equivalent Fraction

Find the Missing Numerator!

	$\times 9$	 
<hr/>	 	<hr/>
	$\times 9$	 

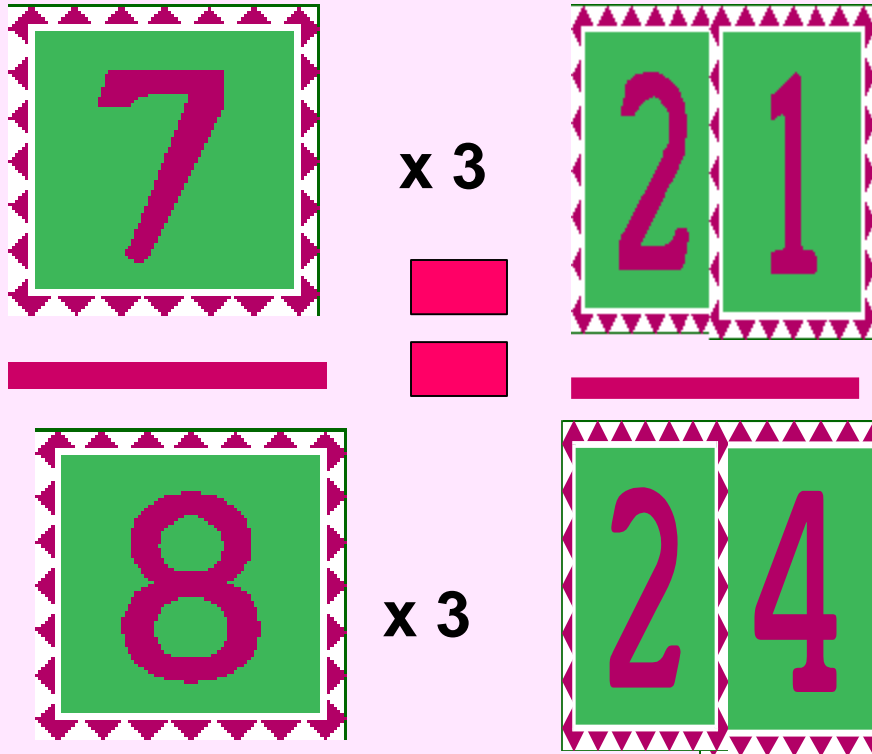
Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

9

Make An Equivalent Fraction

Find the Missing Numerator!



Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

3

Make An Equivalent Fraction

Find the Missing Numerator!

$$\frac{1}{8} \times 7 = \frac{7}{56}$$

Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

7

Make An Equivalent Fraction

Find the Missing Numerator!

$$\frac{\boxed{1}}{\boxed{2}} \times 5 = \frac{\boxed{5}}{\boxed{10}}$$

Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

5

Make An Equivalent Fraction

Find the Missing Numerator!

The diagram shows two fractions. The first fraction has a numerator of 3 and a denominator of 10. To its right is a multiplier $\times 4$. The second fraction has a numerator of 21 and a denominator of 40. To its left is another multiplier $\times 4$. The fractions are represented by green boxes with numbers inside, and the multipliers are shown as text next to the fractions.

Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

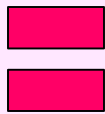
4

Make An Equivalent Fraction

Find the Missing Numerator!



x 5



x 5






Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

5

Make An Equivalent Fraction

Find the Missing Numerator!

 $\times 6$  $\times 6$  $\times 6$

Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

6

Make An Equivalent Fraction

Find the Missing Numerator!



x 9



x 9



Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

9

Make An Equivalent Fraction

Find the Missing Numerator!

The diagram shows a fraction $\frac{4}{5}$ on the left. To its right is a multiplier $\times 6$, represented by two red squares. To the right of the multiplier is another fraction $\frac{24}{30}$. The numerators 4, 24 and denominators 5, 30 are each enclosed in a green square with a decorative border. The fractions are separated by a horizontal line.

$$\frac{4}{5} \times 6 = \frac{24}{30}$$

Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

6

Make An Equivalent Fraction

Find the Missing Numerator!



x 4



x 4



Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

4

Make An Equivalent Fraction

Find the Missing Numerator!



x 8



x 8



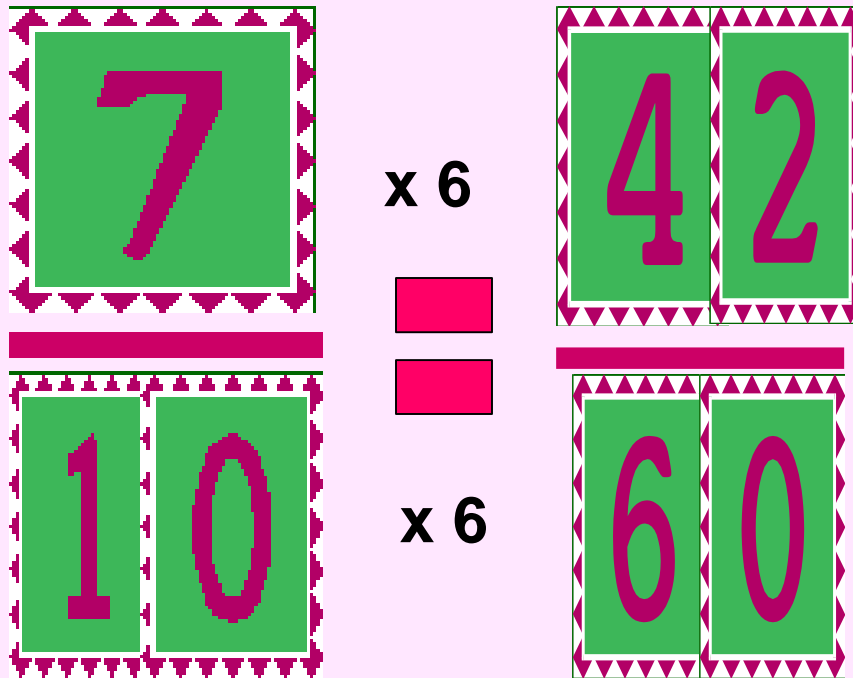
Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

8

Make An Equivalent Fraction

Find the Missing Numerator!



Given the new denominator, can you find the missing numerator?

We multiplied the numerator and denominator by ...

6

Try these on your own.

Make Equivalent Fractions

Find the Missing Numerators!

A $\frac{\boxed{4}}{\boxed{5}} = \frac{\boxed{44}}{\boxed{55}}$

C $\frac{\boxed{2}}{\boxed{7}} = \frac{\boxed{12}}{\boxed{42}}$

B $\frac{\boxed{5}}{\boxed{6}} = \frac{\boxed{45}}{\boxed{54}}$

D $\frac{\boxed{4}}{\boxed{9}} = \frac{\boxed{28}}{\boxed{63}}$



[CLICK HERE](#)

to try

**Adding & Subtracting
Fractions**

