





# Find fractions equivalent to a unit fraction

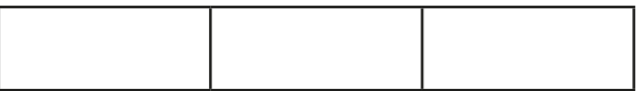



1 Use the bar models to find the equivalent fractions.

a)    $\frac{1}{4} = \frac{\square}{\square}$


b)    $\frac{1}{6} = \frac{\square}{\square}$


c) Shade the bar models to find an equivalent fraction to  $\frac{1}{3}$

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

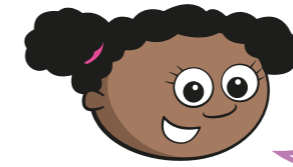


d) Shade the bar models to find an equivalent fraction to  $\frac{1}{5}$

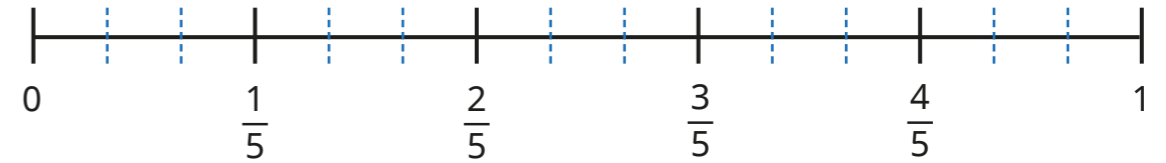
  $\frac{1}{5} = \frac{\square}{\square}$



2 Whitney is finding equivalent fractions using a number line.



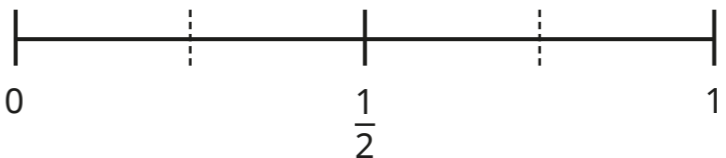
I can find equivalent fractions by splitting the number line into smaller parts.

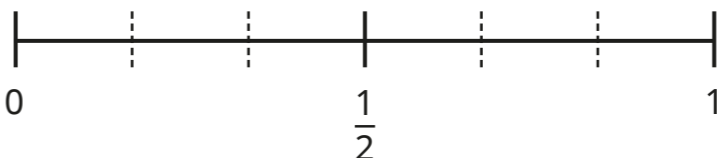


Use Whitney's number line to complete the equivalent fraction.

$$\frac{1}{5} = \frac{\square}{15}$$

3 Use the number lines to complete the equivalent fractions.

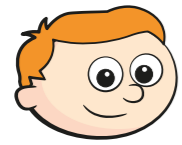
a)   $\frac{1}{2} = \frac{\square}{\square}$

b)   $\frac{1}{2} = \frac{\square}{\square}$

4 Find three fractions that are equivalent to  $\frac{1}{3}$

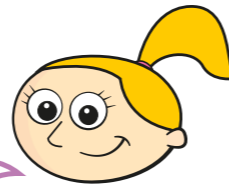


5 Ron and Eva are finding equivalent fractions.



Ron

I will multiply the numerator and denominator by the same number.



Eva

I will use the relationship between the numerator and the denominator.

a) Use Ron's method to find the equivalent fractions.

$$\frac{1}{7} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

× 4 (top arrow) and × 4 (bottom arrow)

$$\frac{1}{9} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

× 3 (top arrow) and × 3 (bottom arrow)

b) Use Eva's method to find the equivalent fractions.

$$\times 3 \quad \frac{1}{3} = \frac{6}{\boxed{\phantom{00}}} \quad \times 3 \qquad \div 3 \quad \frac{1}{3} = \frac{\boxed{\phantom{00}}}{27} \quad \div 3$$

6 Use your preferred method to complete the equivalent fractions.

a)  $\frac{1}{4} = \frac{6}{\boxed{\phantom{00}}}$

d)  $\frac{1}{7} = \frac{\boxed{\phantom{00}}}{49}$

g)  $\frac{1}{\boxed{\phantom{00}}} = \frac{4}{40}$

b)  $\frac{1}{5} = \frac{5}{\boxed{\phantom{00}}}$

e)  $\frac{1}{9} = \frac{9}{\boxed{\phantom{00}}}$

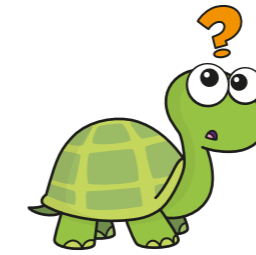
h)  $\frac{1}{12} = \frac{\boxed{\phantom{00}}}{144}$

c)  $\frac{1}{8} = \frac{\boxed{\phantom{00}}}{48}$

f)  $\frac{1}{\boxed{\phantom{00}}} = \frac{6}{18}$

i)  $\frac{1}{\boxed{\phantom{00}}} = \frac{25}{125}$

7 Tiny is trying to find an equivalent fraction.



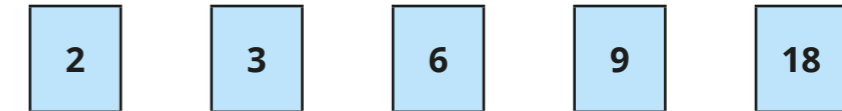
$$\frac{1}{6} = \frac{3}{8}$$

What mistake has Tiny made?

8 Here are some equivalent fractions.

$$\frac{1}{3} = \frac{\triangle}{\square} = \frac{\bullet}{\star} = \frac{\heartsuit}{\heartsuit}$$

Each shape represents a different number card.



Use the clues to find the value of each shape.

- $\square$  is half of  $\heartsuit$
- $\bullet + \triangle = 5$
- $\star$  is double  $\triangle$

$\triangle = \boxed{\phantom{00}}$   
 $\square = \boxed{\phantom{00}}$   
 $\bullet = \boxed{\phantom{00}}$   
 $\star = \boxed{\phantom{00}}$   
 $\heartsuit = \boxed{\phantom{00}}$