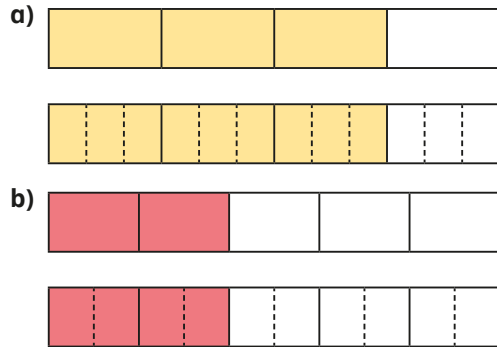


1 What equivalent fractions are shown by the bar models?

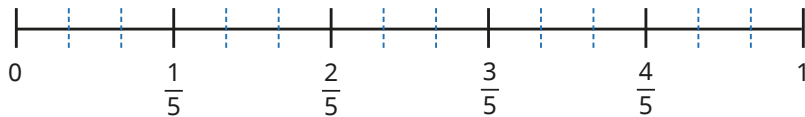


- c) Draw bar models to find an equivalent fraction to  $\frac{2}{3}$
- d) Draw bar models to find an equivalent fraction to  $\frac{4}{5}$

2 Whitney is finding equivalent fractions using a number line.



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

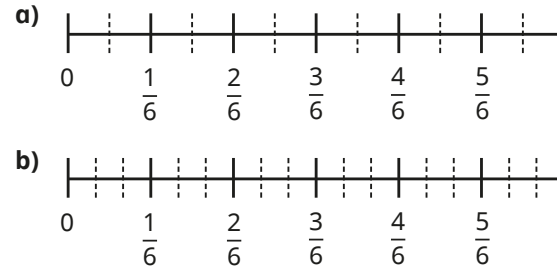


Use Whitney's number line to complete the equivalent fractions.

- a)  $\frac{1}{5} = \frac{\square}{15}$       c)  $\frac{3}{5} = \frac{\square}{15}$
- b)  $\frac{2}{5} = \frac{\square}{15}$       d)  $\frac{4}{5} = \frac{\square}{15}$



3 Use the number lines to find fractions equivalent to  $\frac{5}{6}$



4 Find three fractions that are equivalent to  $\frac{4}{7}$

5 Complete the equivalent fractions.

a)  $\frac{4}{9} = \frac{\square}{\square}$

$\times 5$  (indicated by an arrow pointing from the denominator 9 to a box above the fraction)

$\times 5$  (indicated by an arrow pointing from the denominator 9 to a box below the fraction)

b)  $\frac{\square}{\square} = \frac{18}{21}$

$\div 3$  (indicated by an arrow pointing from the numerator 18 to a box above the fraction)

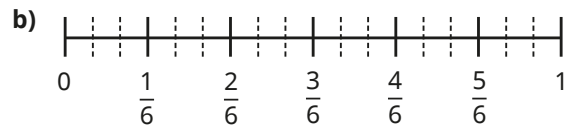
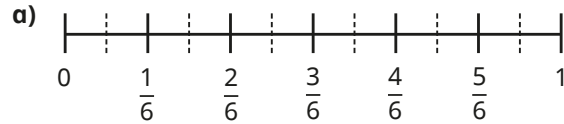
$\div 3$  (indicated by an arrow pointing from the denominator 21 to a box below the fraction)

6 Complete the equivalent fractions.

- a)  $\frac{3}{4} = \frac{6}{\square}$       d)  $\frac{3}{7} = \frac{\square}{49}$       g)  $\frac{2}{\square} = \frac{6}{30}$
- b)  $\frac{4}{5} = \frac{12}{\square}$       e)  $\frac{7}{9} = \frac{21}{\square}$       h)  $\frac{7}{12} = \frac{\square}{144}$
- c)  $\frac{5}{8} = \frac{\square}{48}$       f)  $\frac{2}{\square} = \frac{6}{18}$       i)  $\frac{5}{\square} = \frac{500}{800}$



3 Use the number lines to find fractions equivalent to  $\frac{5}{6}$



4 Find three fractions that are equivalent to  $\frac{4}{7}$

5 Complete the equivalent fractions.

a)  $\frac{4}{9} = \frac{\square}{\square}$

$\times 5$  (arrow from 4 to box)  
 $\times 5$  (arrow from 9 to box)

b)  $\frac{\square}{\square} = \frac{18}{21}$

$\div 3$  (arrow from box to 18)  
 $\div 3$  (arrow from box to 21)

6 Complete the equivalent fractions.

a)  $\frac{3}{4} = \frac{6}{\square}$

d)  $\frac{3}{7} = \frac{\square}{49}$

g)  $\frac{2}{\square} = \frac{6}{30}$

b)  $\frac{4}{5} = \frac{12}{\square}$

e)  $\frac{7}{9} = \frac{21}{\square}$

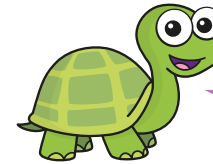
h)  $\frac{7}{12} = \frac{\square}{144}$

c)  $\frac{5}{8} = \frac{\square}{48}$

f)  $\frac{2}{\square} = \frac{6}{18}$

i)  $\frac{5}{\square} = \frac{500}{800}$

7 Tiny is using this rule to find fractions that are equivalent to  $\frac{8}{12}$



Whatever I do to the numerator, I have to do to the denominator.

$\frac{16}{24}$	$\frac{10}{14}$	$\frac{7}{11}$	$\frac{2}{3}$
-----------------	-----------------	----------------	---------------

Which of Tiny's fractions are equivalent to  $\frac{8}{12}$ ?

What mistakes has Tiny made?

8 Here are some equivalent fractions.

Find the values of A, B and C.

$\frac{A}{9}$	$\frac{3}{B}$	$\frac{2}{18}$	$\frac{C}{90}$
---------------	---------------	----------------	----------------

9 Here are three fraction cards.

All the fractions are equivalent.

$\frac{3}{A}$	$\frac{B}{14}$	$\frac{12}{C}$
---------------	----------------	----------------

$A + B = 13$

Work out the value of C.

10  $\frac{3}{5} = \frac{9}{1 + \bullet}$

Find the value of  $\bullet$