1 What equivalent fractions are shown on the bar models?
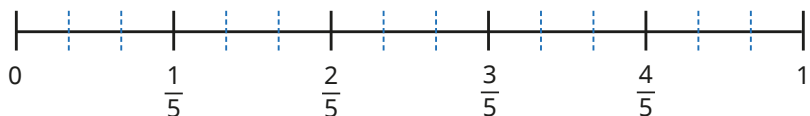
a)

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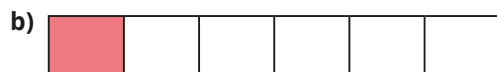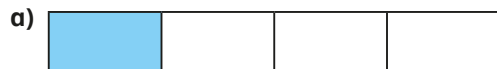
c) Draw bar models to find an equivalent fraction to $\frac{1}{3}$

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

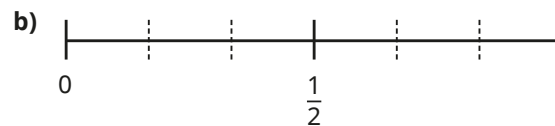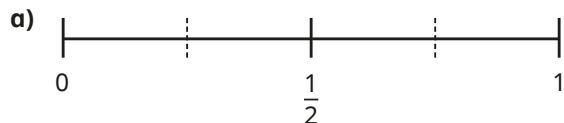**2** Whitney is finding equivalent fractions using a number line.

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

$0 \qquad \frac{1}{5} \qquad \frac{2}{5} \qquad \frac{3}{5} \qquad \frac{4}{5} \qquad 1$

Use Whitney's number line to find a fraction equivalent to $\frac{1}{5}$

3 Use the number lines to find fractions equivalent to $\frac{1}{2}$

a)

$0 \qquad \frac{1}{2} \qquad 1$

b)

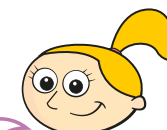$0 \qquad \frac{1}{2} \qquad 1$

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

5 Ron and Eva are finding equivalent fractions.

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

Ron

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

Eva

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

$\times 4$

$\frac{1}{7} = \dfrac{\boxed{}}{\boxed{}}$

$\times 4$

$\times 3$

$\frac{1}{9} = \dfrac{\boxed{}}{\boxed{}}$

$\times 3$

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

$\times 3 \quad \frac{1}{3} = \dfrac{6}{\boxed{}} \quad \times 3$

$\div 3 \quad \frac{1}{3} = \dfrac{\boxed{}}{27} \quad \div 3$

b)

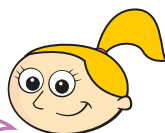0 $\frac{1}{2}$ 1

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

5   Ron and Eva are finding equivalent fractions.

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

Ron

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

Eva

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

× 4

$\frac{1}{7} = \dfrac{\square}{\square}$

× 4

× 3

$\frac{1}{9} = \dfrac{\square}{\square}$

× 3

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

× 3 $\frac{1}{3} = \dfrac{6}{\square}$ × 3

÷ 3 $\frac{1}{3} = \dfrac{\square}{27}$ ÷ 3

6   Use your preferred method to complete the equivalent fractions.

a) $\frac{1}{4} = \dfrac{6}{\square}$

d) $\frac{1}{7} = \dfrac{\square}{49}$

g) $\dfrac{1}{\square} = \dfrac{4}{40}$

b) $\frac{1}{5} = \dfrac{5}{\square}$

e) $\frac{1}{9} = \dfrac{9}{\square}$

h) $\frac{1}{12} = \dfrac{\square}{144}$

c) $\frac{1}{8} = \dfrac{\square}{48}$

f) $\dfrac{1}{\square} = \dfrac{6}{18}$

i) $\dfrac{1}{\square} = \dfrac{25}{125}$

7   Tiny is trying to find an equivalent fraction.
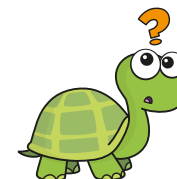
$\frac{1}{6} = \frac{3}{8}$

What mistake has Tiny made?

8   Here are some equivalent fractions.

$$\frac{1}{3} = \frac{\triangle}{\blacksquare} = \frac{\bullet}{\bigstar} = \frac{\bigstar}{\heartsuit}$$

Each shape represents a different number card.

| 2 | 3 | 6 | 9 | 18 |

Use the clues to find the value of each shape.

- $\blacksquare$ is half of $\heartsuit$
- $\bullet$ + $\triangle$ = 5
- $\bigstar$ is double $\triangle$