Green

I Shade the bar models to represent the fractions.

a) Shade $\frac{1}{2}$ of the bar model.

b) Shade $\frac{2}{4}$ of the bar model.

What do you notice?

The same size section of both bars is shaded . 1/2 and 2/4 are equivalent to each other.

I Write <, > or = to compare the fractions.

Use the bar models to help you.

a)

$\frac{5}{8}$ (>) $\frac{3}{8}$

b)

$\frac{5}{8}$ (<) $\frac{7}{8}$

1 Complete the additions.

Use the bar models to help you.

a)

$\frac{1}{3} + \frac{1}{3} = \boxed{\frac{2}{3}}$

b)

$\frac{1}{5} + \frac{1}{5} = \boxed{\frac{2}{5}}$

c)

$\frac{1}{5} + \frac{2}{5} = \boxed{\frac{3}{5}}$

d)

$\frac{1}{5} + \frac{3}{5} = \boxed{\frac{4}{5}}$

1 Complete the subtractions.

Use the bar models to help you.

a)

$\frac{2}{3} - \frac{1}{3} = \boxed{\frac{1}{3}}$

b)

$\frac{2}{5} - \frac{1}{5} = \boxed{\frac{1}{5}}$

c)

$\frac{3}{5} - \frac{1}{5} = \boxed{\frac{2}{5}}$

d)

$\frac{4}{5} - \frac{1}{5} = \boxed{\frac{3}{5}}$

2 Jack has $\frac{7}{8}$ of a chocolate bar.

He eats $\frac{4}{8}$ of the chocolate bar.

What fraction of the chocolate bar does he have left?

Jack has $\boxed{\frac{3}{8}}$ of the chocolate bar left.

2 Shade the circles and complete the additions.

a)

$\frac{1}{8} + \frac{3}{8} = \boxed{\frac{4}{8}}$

b)

$\frac{5}{8} + \frac{1}{8} = \boxed{\frac{6}{8}}$

6 Kim has read $\frac{6}{7}$ of her book.

Tom has read $\frac{2}{7}$ of his book.

a) Shade the bar models to represent this information.
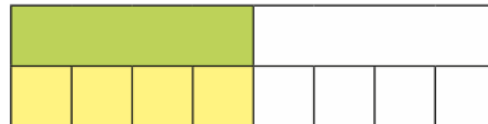
Kim

Tom

b) How much more has Kim read than Tom?
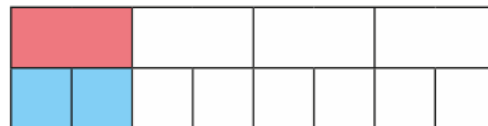
Kim has read $\boxed{\frac{4}{7}}$ more of her book than Tom.

2 Complete the equivalent fractions.

a)

$\frac{1}{2} = \frac{\boxed{4}}{8}$

b)

$\frac{1}{4} = \frac{2}{\boxed{8}}$

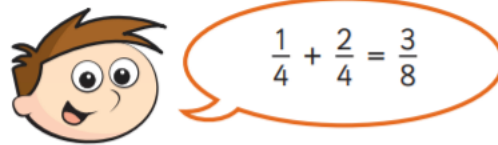**2** Write <, > or = to compare the fractions.

a) $\dfrac{1}{5}$ $\boxed{<}$ $\dfrac{3}{5}$

d) $\dfrac{6}{7}$ $\boxed{>}$ $\dfrac{2}{7}$

b) $\dfrac{2}{5}$ $\boxed{=}$ $\dfrac{2}{5}$

e) $\dfrac{6}{13}$ $\boxed{<}$ $\dfrac{12}{13}$

c) $\dfrac{2}{7}$ $\boxed{<}$ $\dfrac{6}{7}$

f) $\dfrac{13}{15}$ $\boxed{=}$ $\dfrac{13}{15}$

5 Teddy is adding fractions.

$\dfrac{1}{4} + \dfrac{2}{4} = \dfrac{3}{8}$

Explain what Teddy has done wrong. Show your working out.

Teddy has added both the numerators and the denominators together. When adding you only need to add the numerators.

$\dfrac{1}{4} + \dfrac{2}{4} = \dfrac{3}{4}$ not $\dfrac{3}{8}$

Red

7 Write the missing numerators.

a) $\dfrac{8}{9} - \dfrac{\boxed{1}}{9} = \dfrac{7}{9}$

e) $\dfrac{7}{10} - \dfrac{5}{10} = \dfrac{1}{10} + \dfrac{\boxed{1}}{10}$

b) $\dfrac{5}{11} - \dfrac{\boxed{1}}{11} = \dfrac{4}{11}$

f) $\dfrac{\boxed{3}}{4} - \dfrac{1}{4} = \dfrac{1}{4} + \dfrac{1}{4}$

c) $\dfrac{8}{9} - \dfrac{\boxed{1}}{9} = \dfrac{3}{9} + \dfrac{4}{9}$

g) $\dfrac{\boxed{5}}{5} - \dfrac{2}{5} = \dfrac{1}{5} + \dfrac{2}{5}$

d) $\dfrac{7}{9} - \dfrac{5}{9} = \dfrac{\boxed{6}}{9} - \dfrac{4}{9}$

h) $\dfrac{4}{5} + \dfrac{1}{5} = \dfrac{3}{7} - \dfrac{2}{7} + \dfrac{\boxed{6}}{7}$

6 Annie has baked 12 muffins.

She puts them into 2 boxes.

What fraction of the muffins could she put in each box?

Complete the table to show four possibilities.

One has been done for you.

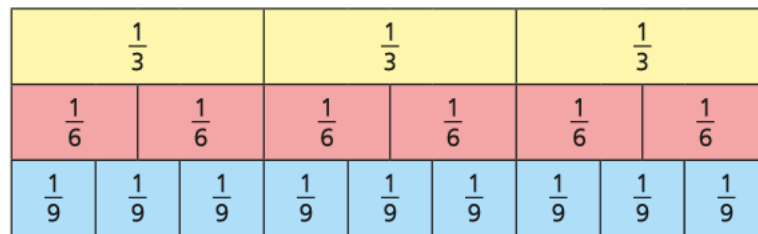| Box 1	Box 2
$\dfrac{1}{12}$	$\dfrac{11}{12}$
$\dfrac{2}{12}$	$\dfrac{10}{12}$
$\dfrac{3}{12}$	$\dfrac{9}{12}$
$\dfrac{4}{12}$	$\dfrac{8}{12}$
$\dfrac{5}{12}$	$\dfrac{7}{12}$
$\dfrac{6}{12}$	$\dfrac{6}{12}$

4 What could the missing numerators and denominators be?

Give three examples for each.

e.g.

a) $\frac{1}{5} < \frac{\boxed{2}}{5}$ $\qquad$ $\frac{1}{5} < \frac{\boxed{3}}{5}$ $\qquad$ $\frac{1}{5} < \frac{\boxed{4}}{5}$

b) $\frac{1}{5} < \frac{1}{\boxed{4}}$ $\qquad$ $\frac{1}{5} < \frac{1}{\boxed{3}}$ $\qquad$ $\frac{1}{5} < \frac{1}{\boxed{2}}$

2 Use the fraction wall to complete the equivalent fractions.

$\frac{1}{3}$			$\frac{1}{3}$			$\frac{1}{3}$		
$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		
$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

a) $\frac{1}{3} = \frac{\boxed{2}}{6}$ $\qquad$ d) $\frac{2}{3} = \frac{6}{\boxed{9}}$

b) $\frac{1}{3} = \frac{\boxed{3}}{9}$ $\qquad$ e) $\frac{4}{6} = \frac{6}{\boxed{9}}$

c) $\frac{2}{3} = \frac{4}{\boxed{6}}$ $\qquad$ e) $\frac{1}{3} = \frac{\boxed{2}}{6} = \frac{\boxed{3}}{9}$

4 Match each bar model to its equivalent fraction.

$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{8}$