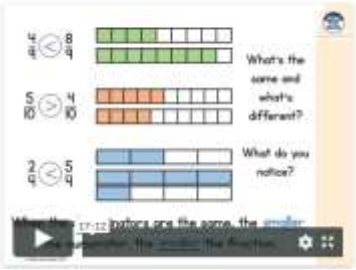
Summer term week 5 w/b 18th May 2020

https://whiterosemaths.com/homelearning/year-3/

Week beginning 20th April lessons 3 and 4

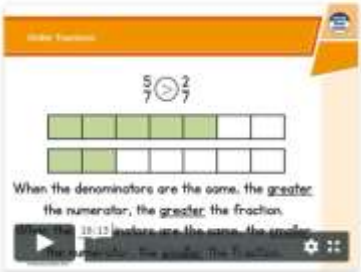
Lesson 3 - Compare fractions



Get the Activity

Get the Answers

Lesson 4 - Order fractions



Get the Activity

Get the Answers

Week beginning 27th April lessons 1 and 2

Lesson 1 - Add fractions

Get the Activity

Get the Answers

Lesson 2 - Subtract fractions

Get the Activity

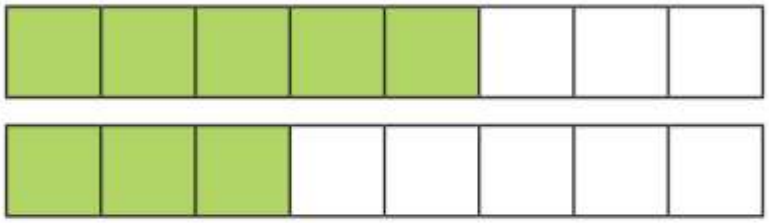
Get the Answers

Lesson 1 activity: Comparing fractions

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

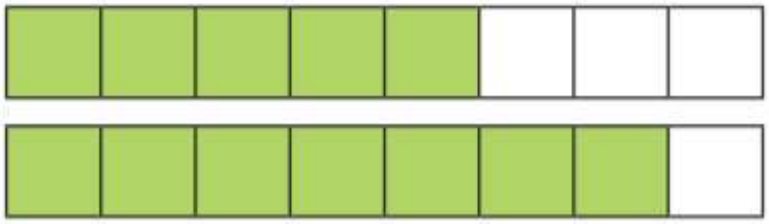
Use the bar models to help you.

a)



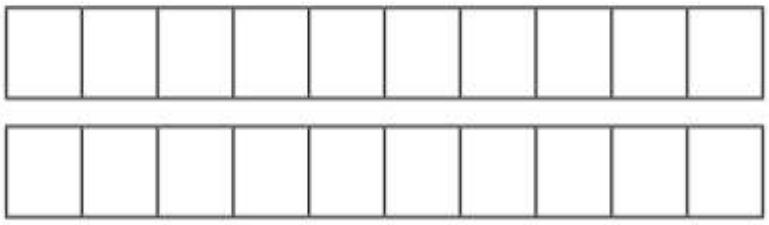
$\frac{5}{8}$ ◯ $\frac{3}{8}$

b)



$\frac{5}{8}$ ◯ $\frac{7}{8}$

c)



$\frac{5}{10}$ ◯ $\frac{7}{10}$

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

a) $\frac{1}{5}$ ◯ $\frac{3}{5}$

b) $\frac{2}{5}$ ◯ $\frac{2}{5}$

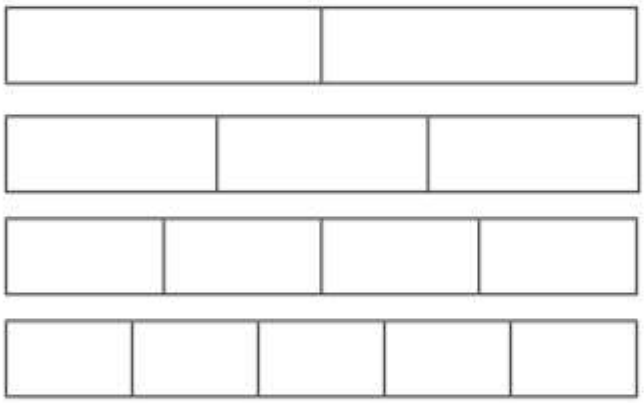
c) $\frac{2}{7}$ ◯ $\frac{6}{7}$

d) $\frac{6}{7}$ ◯ $\frac{2}{7}$

e) $\frac{6}{13}$ ◯ $\frac{12}{13}$

f) $\frac{13}{15}$ ◯ $\frac{13}{15}$

3 Here are some bar models.



$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$

a) Shade the bar models to represent the fractions.

b) Write < or > to compare the fractions.

Use the bar models to help you.

$\frac{1}{2}$ ◯ $\frac{1}{3}$ $\frac{1}{4}$ ◯ $\frac{1}{3}$ $\frac{1}{5}$ ◯ $\frac{1}{3}$

$\frac{1}{3}$ ◯ $\frac{1}{2}$ $\frac{1}{4}$ ◯ $\frac{1}{5}$ $\frac{1}{5}$ ◯ $\frac{1}{2}$

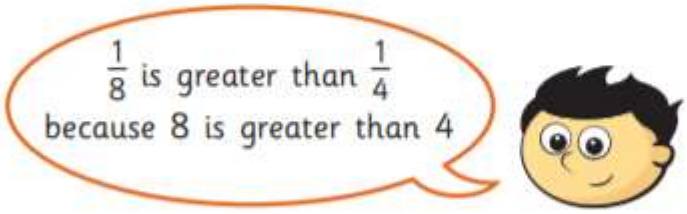
4 What could the missing numerators and denominators be?

Give three examples for each.

a) $\frac{1}{5} < \frac{\square}{5}$ $\quad \frac{1}{5} < \frac{\square}{5}$ $\quad \frac{1}{5} < \frac{\square}{5}$

b) $\frac{1}{5} < \frac{1}{\square}$ $\quad \frac{1}{5} < \frac{1}{\square}$ $\quad \frac{1}{5} < \frac{1}{\square}$

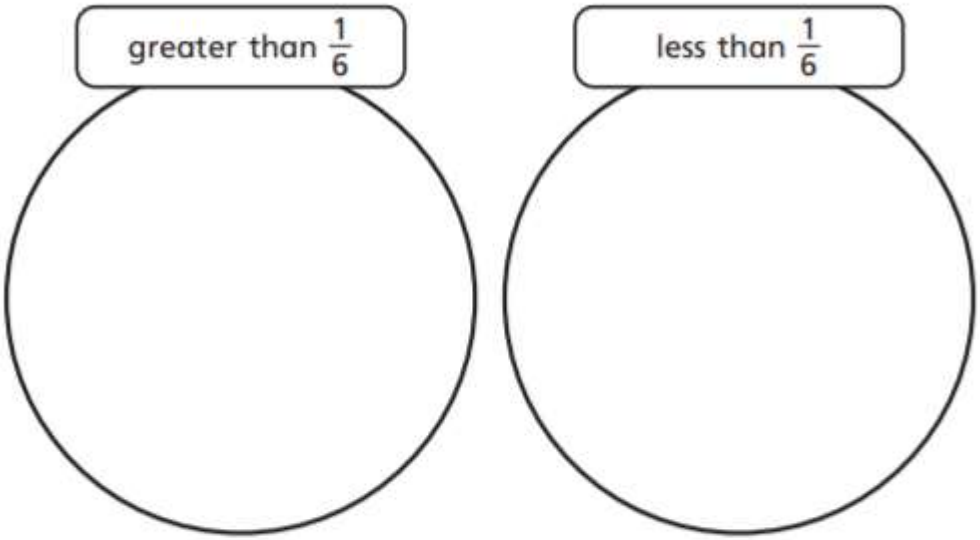
5 Jack is comparing fractions.



Draw bar models to show that Jack is wrong.

6 Sort the fractions into the circles.

$\frac{5}{6}$ $\frac{1}{8}$ $\frac{1}{2}$ $\frac{2}{6}$ $\frac{1}{12}$ $\frac{3}{6}$



7 Complete the sentences using the word bank.

numerator | denominator | greater | smaller

a) When fractions have the same denominator, the greater the _____, the _____ the fraction.

b) When fractions have the same numerator, the greater the _____, the _____ the fraction.

Lesson 2 activity: ordering fractions

1 **a)** Shade the bar models to represent the fractions.

$\frac{1}{5}$

$\frac{2}{5}$

$\frac{3}{5}$

$\frac{4}{5}$

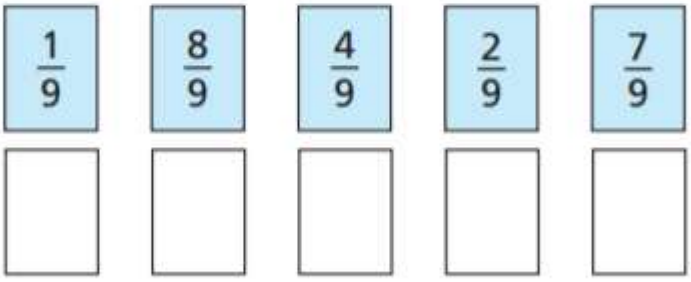
b) What do you notice?

c) Complete the sentence.

numerator | denominator | greater | smaller

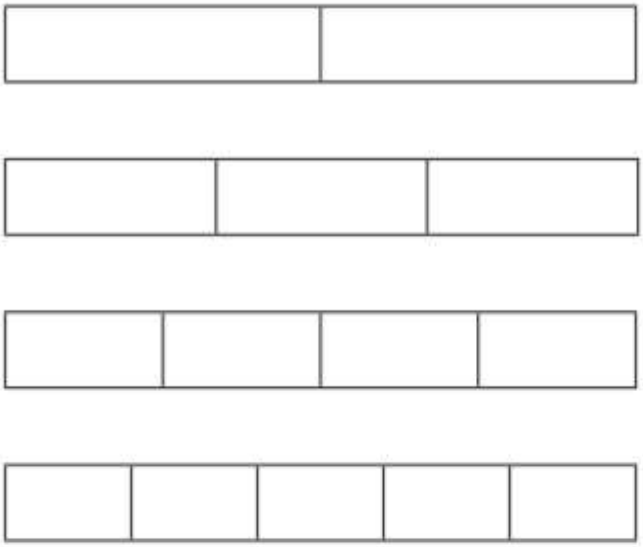
When fractions have the same _____, the _____ the _____ the _____ the fraction.

2 Write the fractions in order, starting with the smallest.



smallest ... greatest

3 **a)** Shade the bar models to represent the fractions.



$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$

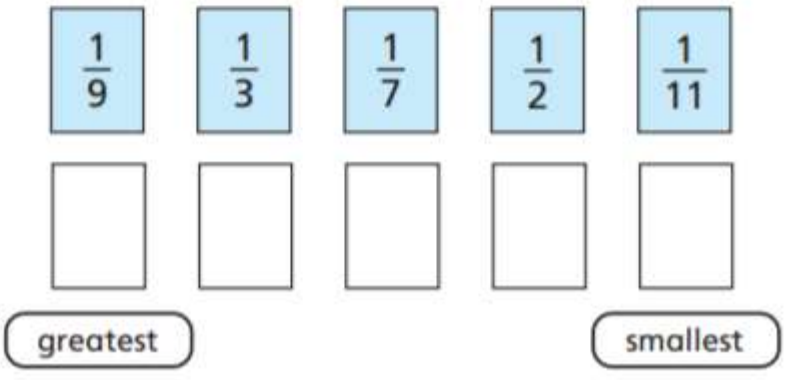
b) What do you notice?

c) Complete the sentence.

numerator | denominator | greater | smaller

When fractions have the same _____, the _____ the _____ the _____ the fraction.

4 Write the fractions in order, starting with the greatest.



5 Tommy and Dora are ordering fractions.

$\frac{1}{5}$ $\frac{4}{15}$ $\frac{2}{3}$ $\frac{7}{15}$

I cannot order these fractions because the numerators and denominators are different.

Tommy

I think I can use equivalent fractions to help me.

Dora

Who do you agree with? _____

Talk about it with a partner.

6 **a)** Complete the equivalent fractions.

$\frac{3}{5} = \frac{6}{\square}$ $\frac{2}{9} = \frac{6}{\square}$ $\frac{1}{7} = \frac{6}{\square}$

b) Write the fractions in order, starting with the greatest.

$\frac{6}{9}$ $\frac{3}{5}$ $\frac{1}{7}$ $\frac{2}{9}$

greatest smallest

7 Dexter and Alex are ordering fractions from smallest to greatest.

$\frac{1}{7}$ $\frac{2}{21}$ $\frac{4}{35}$ $\frac{2}{7}$

a)

I am going to make the numerators the same.

Dexter

Use Dexter's method to put the fractions in order.

b)

I am going to make the denominators the same.

Alex

Use Alex's method to put the fractions in order.

c) Which method do you prefer? Talk about it with a partner.

Lesson 3 activity: add fractions

1 Complete the additions.

Use the bar models to help you.

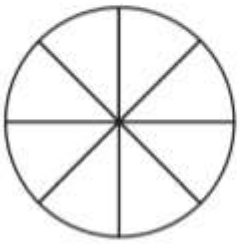
a)  $\frac{1}{3} + \frac{1}{3} = \square$

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

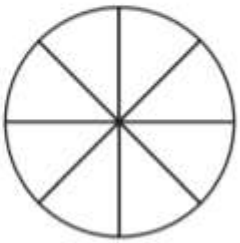
c)  $\frac{1}{5} + \frac{2}{5} = \square$

d)  $\frac{1}{5} + \frac{3}{5} = \square$

2 Shade the circles and complete the additions.

a) 

$\frac{1}{8} + \frac{3}{8} = \square$

b) 

$\frac{5}{8} + \frac{1}{8} = \square$

c)

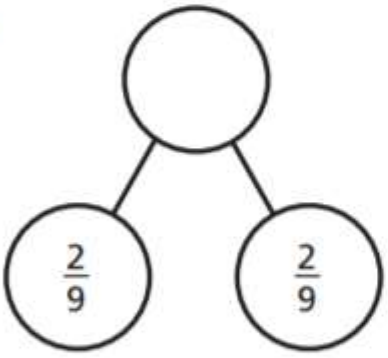
$\frac{3}{8} + \frac{3}{8} = \square$

d)

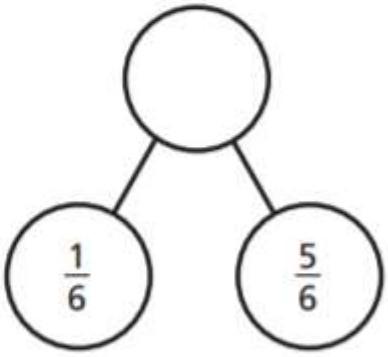
$\frac{5}{8} + \frac{3}{8} = \square$

3 Complete the part-whole models.

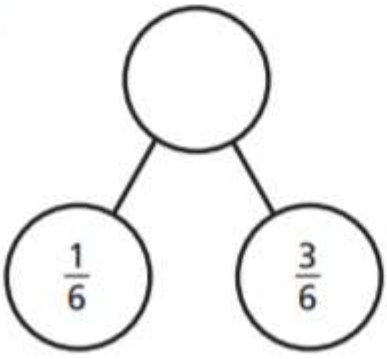
a)



c)



b)



Which part-whole model is the odd one out? _____

4 Alex and Huan are eating a cake.

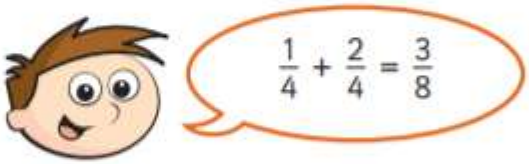
Alex eats $\frac{4}{7}$ of the cake.

Huan eats $\frac{2}{7}$ of the cake.

What fraction of the cake have they eaten altogether?

They have eaten ☐ of the cake altogether.

5 Teddy is adding fractions.



a) Draw a bar model to show that Teddy is wrong.

b) Complete the addition $\frac{1}{4} + \frac{2}{4} =$ ☐

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 different possibilities.

One has been done for you.

Box 1	Box 2
$\frac{1}{12}$	$\frac{11}{12}$

Are there any other possibilities? Talk about it with a partner.

7 Complete the additions.

a) $\frac{3}{8} + \frac{4}{8} = \square$

b) $\frac{3}{9} + \frac{4}{9} = \square$

c) $\frac{3}{29} + \frac{4}{29} = \square$

d) $\frac{3}{103} + \frac{4}{103} = \square$

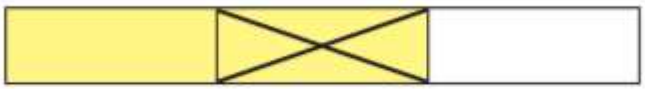
e) $\frac{5}{31} + \frac{9}{31} = \square$

f) $\frac{17}{111} + \frac{33}{111} = \square$

Lesson 4 activity: subtract fractions

1 Complete the subtractions.

Use the bar models to help you.

a)  $\frac{2}{3} - \frac{1}{3} = \square$

b)  $\frac{2}{5} - \frac{1}{5} = \square$

c)  $\frac{3}{5} - \frac{1}{5} = \square$

d)  $\frac{4}{5} - \frac{1}{5} = \square$

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 $\square$ of the chocolate bar left.

3 Complete the subtractions.

Simplify your answers where possible.

a) $\frac{7}{10} - \frac{1}{10} = \square = \square$

b) $\frac{7}{10} - \frac{2}{10} = \square = \square$

c) $\frac{7}{10} - \frac{3}{10} = \square = \square$

d) $\frac{7}{12} - \frac{3}{12} = \square = \square$

e) $\frac{8}{12} - \frac{4}{12} = \square = \square$

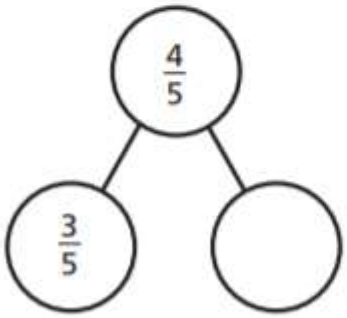
f) $\frac{9}{12} - \frac{5}{12} = \square = \square$

g) $\frac{9}{59} - \frac{5}{59} = \square$

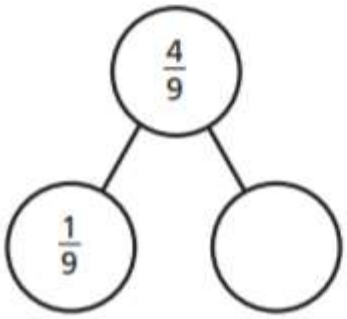
h) $\frac{13}{127} - \frac{9}{127} = \square$

4 Complete the part-whole models.

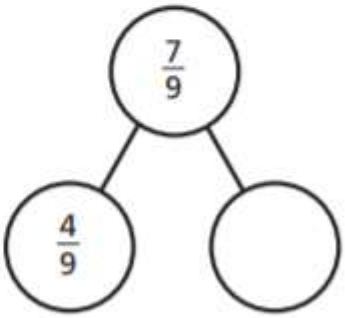
a)



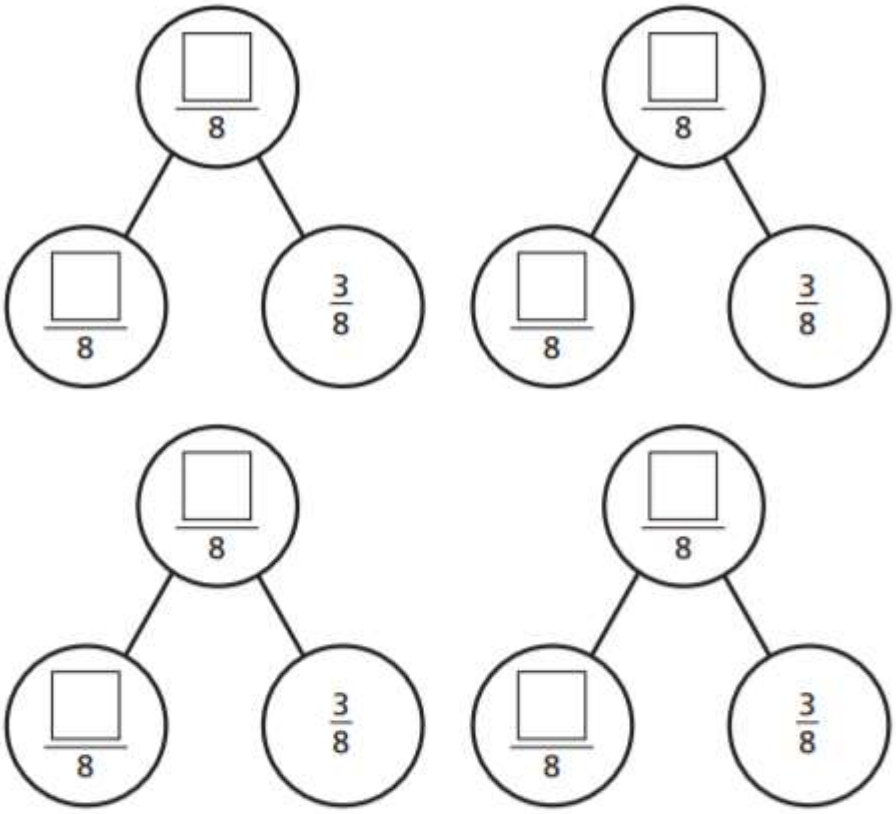
b)



c)



5 Complete the part-whole model in four different ways.



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 ☐ more of her book than Tom.

7 Write the missing numerators.

a) $\frac{8}{9} - \frac{\square}{9} = \frac{7}{9}$

b) $\frac{5}{11} - \frac{\square}{11} = \frac{4}{11}$

c) $\frac{8}{9} - \frac{\square}{9} = \frac{3}{9} + \frac{4}{9}$

d) $\frac{7}{9} - \frac{5}{9} = \frac{\square}{9} - \frac{4}{9}$

e) $\frac{7}{10} - \frac{5}{10} = \frac{1}{10} + \frac{\square}{10}$

f) $\frac{\square}{4} - \frac{1}{4} = \frac{1}{4} + \frac{1}{4}$

g) $\frac{\square}{5} - \frac{2}{5} = \frac{1}{5} + \frac{2}{5}$

h) $\frac{4}{5} + \frac{1}{5} = \frac{3}{7} - \frac{2}{7} + \frac{\square}{7}$

8 Complete the table to show three possible values of the square and triangle.

$\frac{\triangle}{92} - \frac{\square}{92} = \frac{13}{92}$

$\triangle$	$\square$

How many other answers can you find?