

Fractions - Week 4

Answers

Monday 18th May 2020

L.O. I am learning to order and
compare fractions.

Key vocabulary: fraction equal compare greater than less than numerator denominator

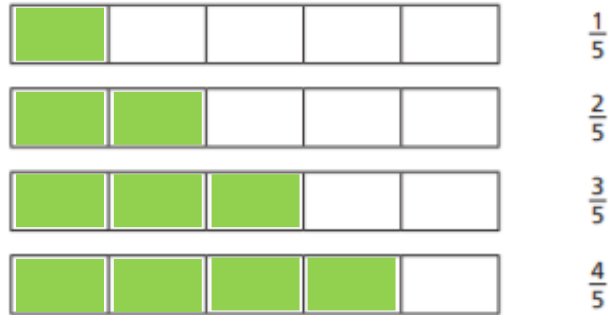


Order fractions

Check your answers.

If you make a mistake, try and work out where it went wrong.

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



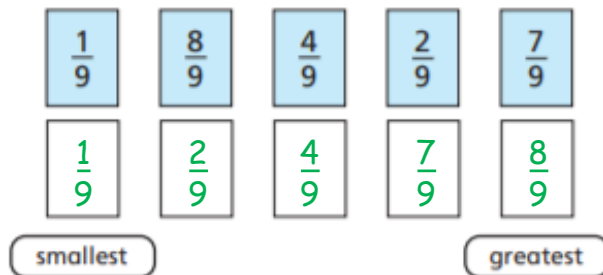
b) What do you notice? *The denominator doesn't change, but as the numerator gets bigger we shade more of the bar.*

c) Complete the sentence.

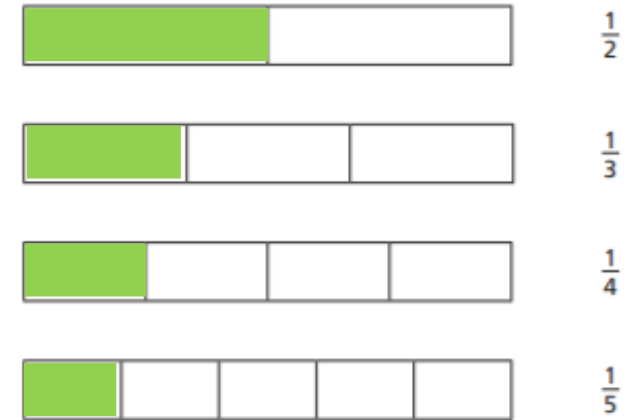
numerator denominator greater smaller

When fractions have the same denominator, the greater the numerator the greater the fraction.

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



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



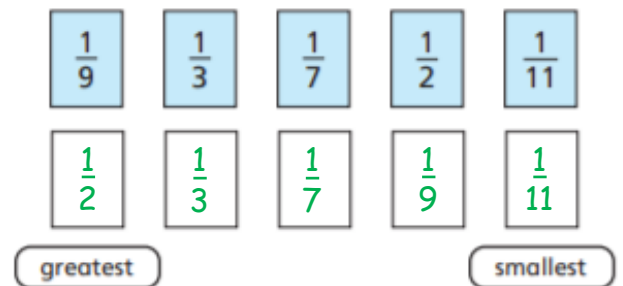
b) What do you notice? *The numerator doesn't change, but as the denominator gets bigger we shade less of the bar.*

c) Complete the sentence.

numerator denominator greater smaller

When fractions have the same numerator, the greater the denominator the smaller the fraction.

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





Check your answers.

If you make a mistake, try and work out where it went wrong.

- 5 Tommy and Dora are ordering fractions.

$$\frac{1}{5}$$

$$\frac{4}{15}$$

$$\frac{2}{3}$$

$$\frac{7}{15}$$



Tommy

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



Dora

I think I can use equivalent fractions to help me.

Who do you agree with? Dora

Talk about it with a partner.

- 6 a) Complete the equivalent fractions.

$$\frac{3}{5} = \frac{6}{10}$$

$$\frac{2}{9} = \frac{6}{27}$$

$$\frac{1}{7} = \frac{6}{42}$$

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

$$\frac{6}{9}$$

$$\frac{3}{5}$$

$$\frac{1}{7}$$

$$\frac{2}{9}$$

$$\frac{3}{5}$$

$$\frac{6}{9}$$

$$\frac{2}{9}$$

$$\frac{1}{7}$$

greatest

smallest





Check your answers.

If you make a mistake, try and work out where it went wrong.

Circles: Either 7 or 8 parts shaded.

Squares: Either 2 and 1 parts shaded

OR

1 and 0 parts shaded.

Any of the answers below:

$$\frac{1}{3}$$

$$\frac{1}{4}$$

$$\frac{1}{5}$$

$$\frac{1}{6}$$

$$\frac{1}{7}$$

$$\frac{1}{8}$$

$$\frac{1}{9}$$

$\frac{3}{5}$ is the largest-
when the numerators are the same, the smaller the denominator the larger the fraction. Children could also explain that $\frac{3}{5}$ is the only fraction larger than a half. $\frac{1}{8}$ is the smallest-
when the denominators are the same, the smaller the numerator, the smaller the fraction.

Tuesday 19th May 2020

L.O. I am learning to add
fractions.

Key vocabulary: fraction equal equivalent add numerator denominator



Add fractions

Check your answers.

If you make a mistake, try and work out where it went wrong.


1 Complete the additions.

Use the bar models to help you.

a)  $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

b)  $\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$

c)  $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

d)  $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$

2 Shade the circles and complete the additions.



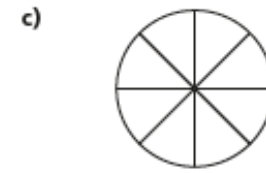
$$\frac{1}{8} + \frac{3}{8} = \frac{4}{8}$$

4 parts shaded



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

6 parts shaded



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

6 parts shaded

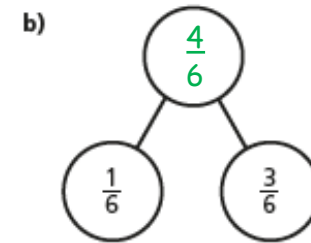
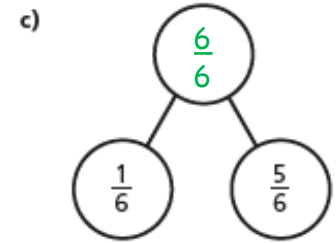
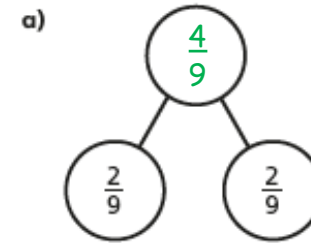


$$\frac{5}{8} + \frac{3}{8} = \frac{8}{8}$$

Or 1 whole

8 parts shaded

3 Complete the part-whole models.



Which part-whole model is the odd one out? Any which you can explain

Talk about your choice with a partner. Did they choose the same odd one out?



Check your answers.

If you make a mistake, try and work out where it went wrong.

- 4 Alex and Huan are eating a cake.

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

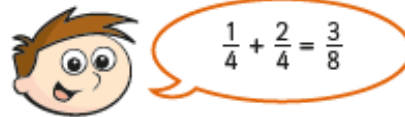
Huan eats $\frac{2}{7}$ of the cake.

What fraction of the cake have they eaten altogether?

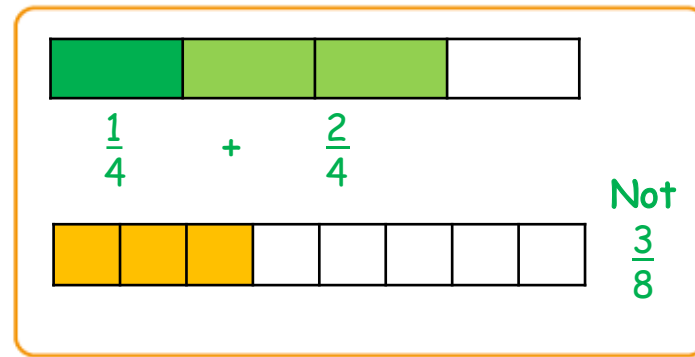
$$\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$$

They have eaten $\frac{6}{7}$ of the cake altogether.

- 5 Teddy is adding fractions.



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



- b) Complete the addition $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$

- 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
$\frac{1}{12}$	$\frac{11}{12}$
$\frac{2}{12}$	$\frac{10}{12}$
$\frac{3}{12}$	$\frac{9}{12}$
$\frac{4}{12}$	$\frac{8}{12}$
$\frac{5}{12}$	$\frac{7}{12}$
$\frac{6}{12}$	$\frac{6}{12}$

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

- 7 Complete the additions.

a) $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

d) $\frac{3}{103} + \frac{4}{103} = \frac{7}{103}$

b) $\frac{3}{9} + \frac{4}{9} = \frac{7}{9}$

e) $\frac{5}{31} + \frac{9}{31} = \frac{14}{31}$

c) $\frac{3}{29} + \frac{4}{29} = \frac{7}{29}$

f) $\frac{17}{111} + \frac{33}{111} = \frac{50}{111}$



Check your answers.

If you make a mistake, try and work out where it went wrong.

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

$$\frac{2}{7} + \frac{3}{7} + \frac{1}{7} = \frac{6}{7}$$

$$\frac{7}{10} + \frac{2}{10} = \frac{9}{10}$$

Rosie is correct.
Whitney has made the mistake of also adding the denominators.
Children could prove why Whitney is wrong using a bar model or strip diagram.

Possible answers:

$$\frac{1}{12} + \frac{11}{12}$$

$$\frac{3}{12} + \frac{9}{12}$$

$$\frac{5}{12} + \frac{7}{12}$$

(In either order)

Wednesday 20th May 2020

L.O. I am learning to subtract
fractions.

Key vocabulary: fraction equal equivalent subtract numerator denominator



Check your answers.


If you make a mistake, try and work out where it went wrong.


Subtract fractions


1 Complete the subtractions.

Use the bar models to help you.

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

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

c)  $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$

d)  $\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$

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?

$$\frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

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

3 Complete the subtractions.

Simplify your answers where possible.

a) $\frac{7}{10} - \frac{1}{10} = \frac{6}{10} = \frac{3}{5}$

e) $\frac{8}{12} - \frac{4}{12} = \frac{4}{12} = \frac{1}{3}$

b) $\frac{7}{10} - \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$

f) $\frac{9}{12} - \frac{5}{12} = \frac{4}{12} = \frac{1}{3}$

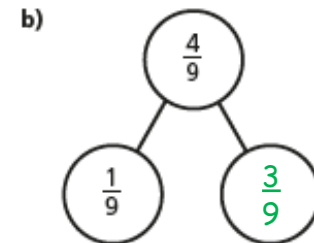
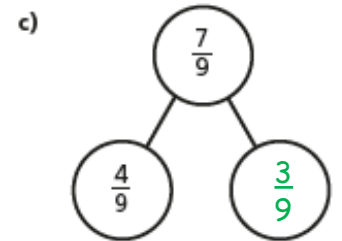
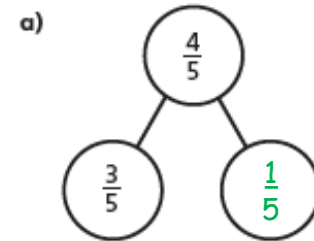
c) $\frac{7}{10} - \frac{3}{10} = \frac{4}{10} = \frac{2}{5}$

g) $\frac{9}{59} - \frac{5}{59} = \frac{4}{59}$

d) $\frac{7}{12} - \frac{3}{12} = \frac{4}{12} = \frac{1}{3}$

h) $\frac{13}{127} - \frac{9}{127} = \frac{4}{127}$

4 Complete the part-whole models.

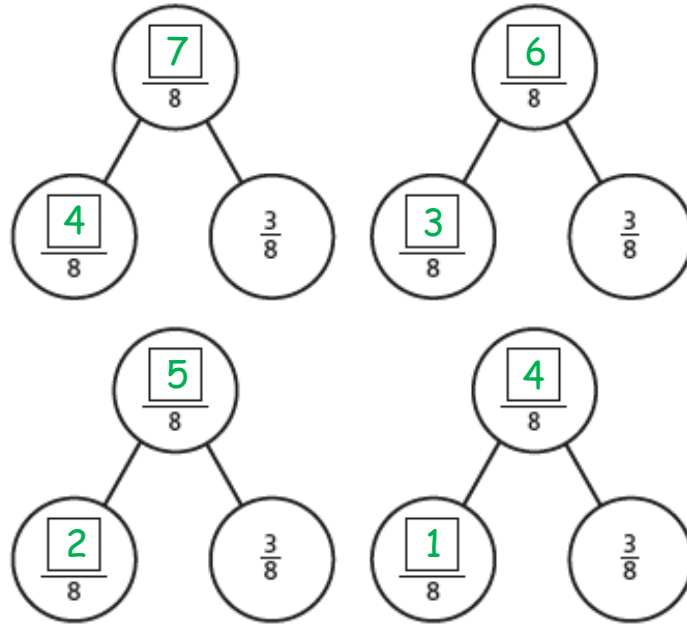




Check your answers.

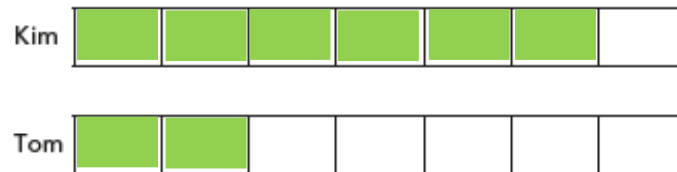
If you make a mistake, try and work out where it went wrong.

- 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.



- b) How much more has Kim read than Tom?

Kim has read $\frac{4}{7}$ more of her book than Tom.

- 7 Write the missing numerators.

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

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

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

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

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

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

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

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

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

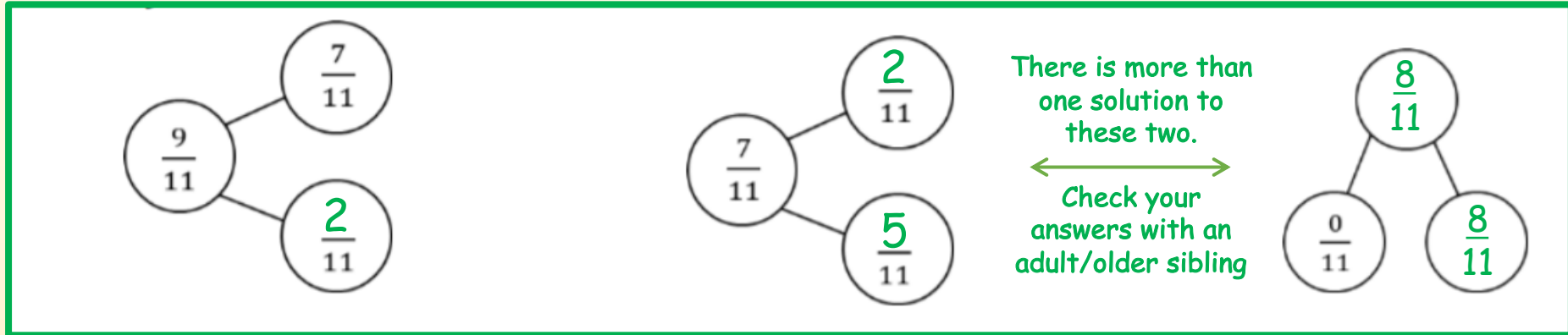
Any suitable value that subtract to equal 13.	

How many other answers can you find?



Check your answers.

If you make a mistake, try and work out where it went wrong.



$$\frac{7}{7} - \frac{3}{7} = \frac{2}{7} + \frac{2}{7}$$

$$\frac{7}{9} - \frac{5}{9} = \frac{4}{9} - \frac{2}{9}$$

Jack has taken two fifths away.
Annie has found the difference between four fifths and two fifths.

Thursday 21st May 2020

L.O. I am learning to solve
problems involving fractions (1).

Key vocabulary: fraction equal equivalent add subtract numerator denominator



I will check your work for you.



Send me your answers on Google Classroom to check.

Or you can write your answers down and send me a photo on Google Classroom, whatever is easier 😊

Friday 22nd May 2020

L.O. I am learning to solve
problems involving fractions (2).

Key vocabulary: fraction equal equivalent add subtract numerator denominator



I will check your work for you.



Send me your answers on Google Classroom to check.

Or you can write your answers down and send me a photo on Google Classroom, whatever is easier 😊