

Class 3 Home Learning, week beginning 11th May 2020

## Maths - Year 3

Summer Term, Week 1  
(w/c 20 April)

### Lesson 3

### Compare fractions

Please watch the video before choosing your challenge.

Why not have a go at the reasoning  
and problem solving too?

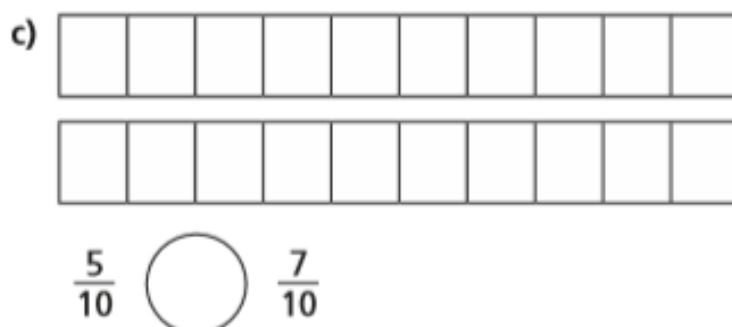
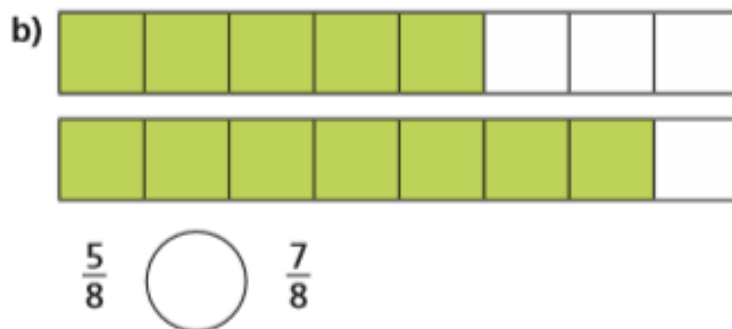
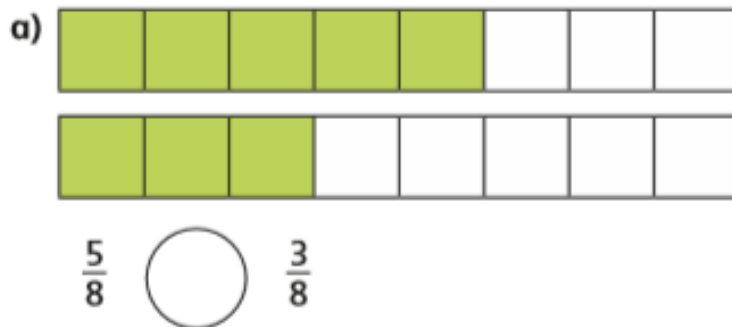
Can I compare fractions?

Challenge 1

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 1-3 mentioned in the video are questions 1-3 in this challenge.

1) Write < (less than), > (greater than) or = (equal to) to compare the fractions. Use the bar models to help you.



2) Write < (less than), > (greater than) or = (equal to) to compare the fractions. Please write each question in full in your maths book.

a)  $\frac{1}{5}$  ○  $\frac{3}{5}$

d)  $\frac{6}{7}$  ○  $\frac{2}{7}$

b)  $\frac{2}{5}$  ○  $\frac{2}{5}$

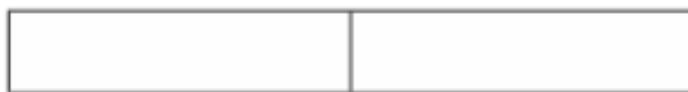
e)  $\frac{6}{13}$  ○  $\frac{12}{13}$

c)  $\frac{2}{7}$  ○  $\frac{6}{7}$

f)  $\frac{13}{15}$  ○  $\frac{13}{15}$

3) Copy the bar models into your maths book. Complete the questions.

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.

$\frac{1}{2}$  ○  $\frac{1}{3}$

$\frac{1}{4}$  ○  $\frac{1}{3}$

$\frac{1}{5}$  ○  $\frac{1}{3}$

$\frac{1}{3}$  ○  $\frac{1}{2}$

$\frac{1}{4}$  ○  $\frac{1}{5}$

$\frac{1}{5}$  ○  $\frac{1}{2}$

Can I compare fractions?

## Challenge 2

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 1-3 mentioned in the video are questions 1-3 in Challenge 1.  
Questions 4-7 mentioned in the video are questions 1-4 in this challenge.

1) Copy and complete.

What could the missing numerators and denominators be?

Give three examples for each.

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

$\frac{1}{5} < \frac{\square}{5}$

$\frac{1}{5} < \frac{\square}{5}$

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

$\frac{1}{5} < \frac{1}{\square}$

$\frac{1}{5} < \frac{1}{\square}$

2) Draw bar models in your maths book to show that Jack is wrong. Do your best to give more than one example.

Jack is comparing fractions.

$\frac{1}{8}$  is greater than  $\frac{1}{4}$   
because 8 is greater than 4



3) Copy and complete.

Sort the fractions into the circles.

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

$\text{greater than } \frac{1}{6}$

$\text{less than } \frac{1}{6}$

4) Copy and complete.

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.

Can I compare fractions?

**Reasoning and problem solving**

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

1)



I know that  $\frac{1}{3}$  is larger than  $\frac{1}{2}$  because 3 is larger than 2

Do you agree with Dora?  
Explain how you know.

- 2) Complete the missing denominator.  
How many different options can you find?

$$\frac{1}{2} > \frac{1}{\square} > \frac{1}{10}$$

- 3) Here are three fractions.

$$\frac{3}{8} \quad \frac{3}{5} \quad \frac{1}{8}$$

Which fraction is the largest? How do you know?

Which fraction is the smallest? How do you know?

# Compare Fractions

## Reasoning and Problem Solving



I know that  $\frac{1}{3}$  is larger than  $\frac{1}{2}$  because 3 is larger than 2

Do you agree with Dora?  
Explain how you know.

Complete the missing denominator.  
How many different options can you find?

$$\frac{1}{2} > \frac{1}{\square} > \frac{1}{10}$$

$\frac{1}{3}$  is smaller because it is split into 3 equal parts, rather than 2 equal parts. Children could draw a bar model to show this.

Examples could include  $\frac{1}{3}, \frac{1}{4}$  etc.

Here are three fractions.

$$\frac{3}{8}, \frac{3}{5}, \frac{1}{8}$$

Which fraction is the largest? How do you know?

Which fraction is the smallest? How do you know?

$\frac{3}{5}$  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.