

Class 3 Home Learning, week beginning 4th May 2020

## Maths - Year 3

### Week 2, Lesson 1

#### Fractions on a number line

Please watch the video before starting the work (no choice of challenges for today's lesson). The video is broken down in the following way:

- Start to 01:20 - Review
- 01:20 to 07:20 - ordering fractions with the same denominator
- 07:20 to 11:48 - ordering and comparing fractions with different denominators
- 11:48 to the end - placing fractions on an empty number line

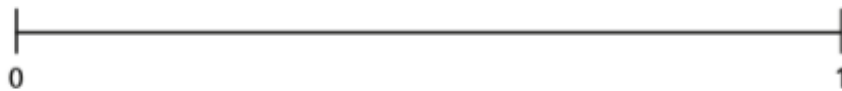
Why not have a go at the reasoning  
and problem solving too?

Can I order fractions on a number line?

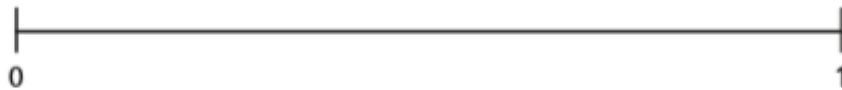
These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

1) Draw the number lines in your maths book. Place the fraction on the number line.

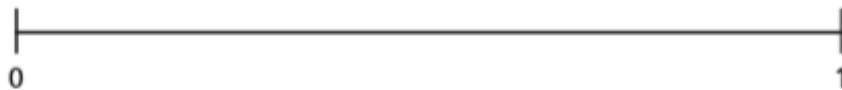
a)  $\frac{1}{2}$



b)  $\frac{1}{3}$



c)  $\frac{1}{4}$



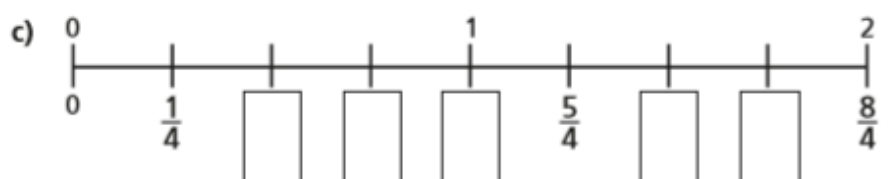
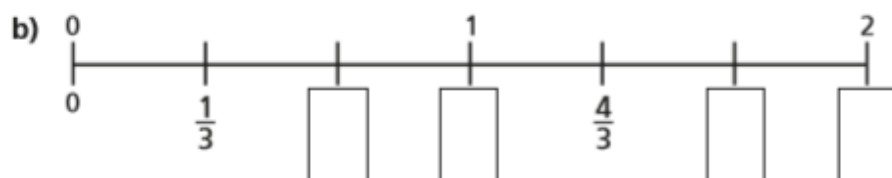
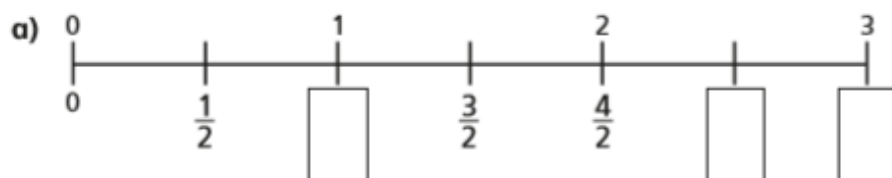
2) Copy and complete the questions in your math book. Write < (less than), > (greater than) or = (equal to) to compare the fractions.

a)  $\frac{1}{2}$    $\frac{1}{4}$

b)  $\frac{1}{4}$    $\frac{1}{3}$

c)  $\frac{1}{3}$    $\frac{1}{2}$

3) Copy and complete.



d) Write three fractions that are equivalent to one whole.

Use the number lines to help you.

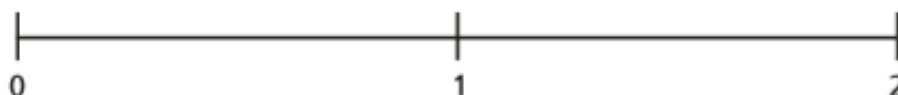
What do you notice?

4) Draw the number lines in your maths book. Draw an arrow to estimate where each fraction belongs on the number line.

a)  $\frac{3}{4}$



b) 1 and  $\frac{2}{3}$



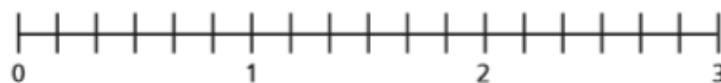
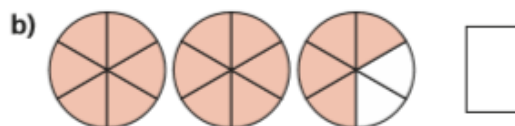
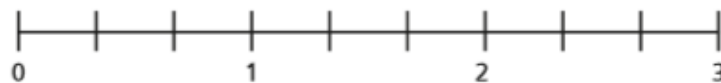
5) Copy each heading into your maths book. Write each fraction under the correct heading.

$\frac{2}{3}$	$\frac{4}{4}$	$\frac{5}{3}$	$\frac{1}{8}$	$\frac{3}{3}$
$\frac{3}{4}$	$\frac{7}{4}$	$\frac{8}{8}$	$\frac{7}{8}$	
Less than one whole		Equal to one whole		More than one whole

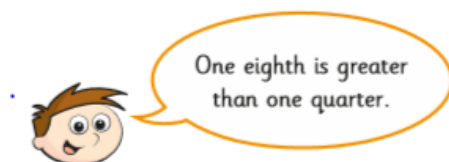
6) Draw the number lines in your maths book. Write the fraction that each picture shows. Place the fraction on the number line.

What fraction is shown in each diagram?

Draw an arrow to show the fraction on the number line.



7)



Do you agree with Teddy? \_\_\_\_\_

Use the number line to show why.

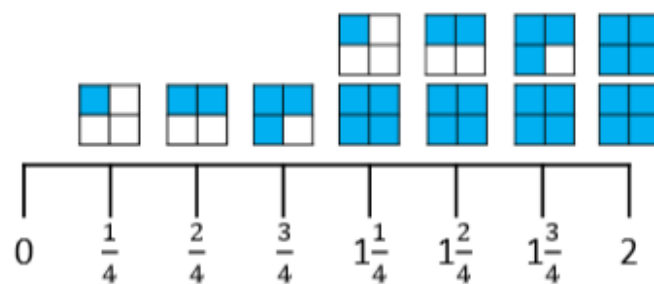


Can I order fractions on a number line?

**Reasoning and problem solving**

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 and to write/show HOW you know.

1) Eva has drawn a number line.



Tommy says it is incorrect.

Do you agree with Tommy?

Explain why.

Can you draw the next three fractions?

2) Alex and Jack are counting up and down in thirds.

Alex starts at  $5\frac{1}{3}$  and counts backwards.

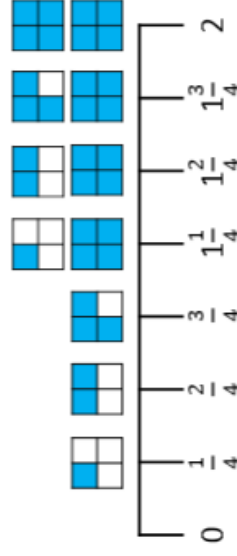
Jack starts at  $3\frac{1}{3}$  and counts forwards.

What fraction will they get to at the same time?

# Fractions on a Number Line

## Reasoning and Problem Solving

Eva has drawn a number line.



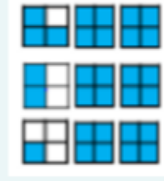
Tommy says it is incorrect.

Do you agree with Tommy?

Explain why.

Can you draw the next three fractions?

Tommy is correct because Eva has missed 1 whole out.



Alex and Jack are counting up and down in thirds.

Alex starts at  $5\frac{1}{3}$  and counts backwards.

Jack starts at  $3\frac{1}{3}$  and counts forwards.

What fraction will they get to at the same time?

They will reach  $4\frac{1}{3}$

