



Lesson 31 LO: To problem solve using halves and quarters

1. Halve each of the foods.
2. Write what Jeff Bob and Jumanji would each have to eat.
3. Challenge: Divide the foods between 4 orangutans – what do they each get now?

Jeff Bob and Jumanji are having a picnic. The picture below shows you what they have brought to share equally between them.

Can you tell me what each of them will have?



Here are some things to consider:

How many tomatoes are there? So how many will they get each?

What fraction of the whole pizza is one slice?
How many slices will each orangutan get?

How can you share the apple out fairly?

Task 1:

Write down what each orangutan eats at the picnic when the food is divided in half.

Task 2:

Jeff Bob and Jumanji's mum and dad decide to join the picnic. How much would each orangutan have if you divided the food by 4 (into quarters)?

LO: To put fractions on a number line

Success Criteria:

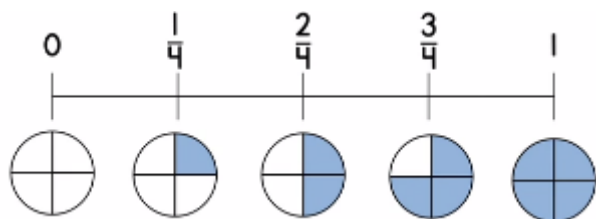
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|---|
| 4. Count how many equal parts the number line is divided into, this tells you the denominator |
| 5. <u>OR</u> look at the denominator of the fraction to tell you how many equal parts the line should be divided into |
| 6. The numerator tells you how many parts to count and where to put your label |

Model: This number line goes from 0-1.

It is divided into **4 equal parts**.



This means it is divided into **quarters**. We can label it like this:



Now you try: How many equal parts is this number line divided into?

This number tells you what the **denominator** will be.



Label the fractions on the number line.

Model: To place a fraction on a blank number line, first look at the **denominator**. This tells you how many equal parts to divide the line into.

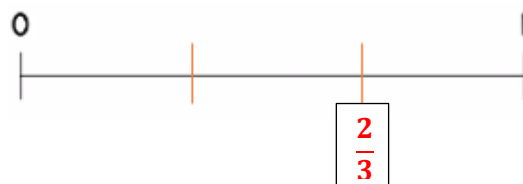
Example: Put $\frac{2}{3}$ on the number line.



The **denominator is 3**, so divide the line into **3 equal parts**:



Now put $\frac{2}{3}$ on the line:



Now you try:

a) Put $\frac{3}{4}$ on the number line:

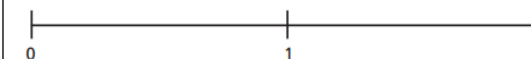


b) Put $\frac{4}{6}$ on the number line:



c) **CHALLENGE!**

Put 1 and $\frac{1}{3}$ on the number line:



Maths – Main activity

Fractions on a number line



1 Draw an arrow to show the fractions on the number lines.

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



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



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



Are your answers accurate or are they estimates?

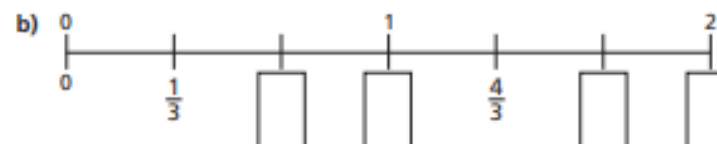
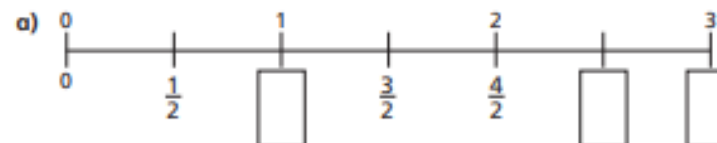
2 Write $<$, $>$ or $=$ to compare the fractions.

a) $\frac{1}{2}$ ○ $\frac{1}{4}$

b) $\frac{1}{4}$ ○ $\frac{1}{3}$

c) $\frac{1}{3}$ ○ $\frac{1}{2}$

3 Write the missing fractions on the number lines.



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

Use the number lines to help you.

What do you notice?

Canonbury Home Learning

- 4 Draw an arrow to estimate where each fraction belongs on the number line.

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



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



- 5 Write each fraction under the correct heading.

$\frac{2}{3}$ $\frac{4}{4}$ $\frac{5}{3}$ $\frac{1}{8}$ $\frac{3}{3}$

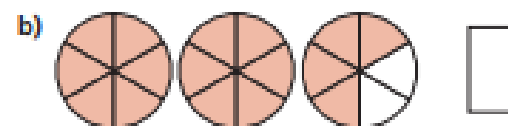
$\frac{3}{4}$ $\frac{7}{4}$ $\frac{8}{8}$ $\frac{7}{8}$

Less than one whole	Equal to one whole	More than one whole



- 6 What fraction is shown in each diagram?

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



- 7



One eighth is greater than one quarter.

Do you agree with Teddy? _____

Use the number line to show why.

