Maths - Year 3 Lesson I Unit and non-unit fractions

Pleas e watch the video before choosing your challenge. Why not have a go at the reasoning and problem solving?

There's a fine line between a numerator and a denominator.

Only a fraction of people will find this funny.



And Mrs Cameron is one of those people...!

w/b 27.4.20 Class 3's Home Learning, Maths (Y3)

Do I understand unit and non-unit fractions?

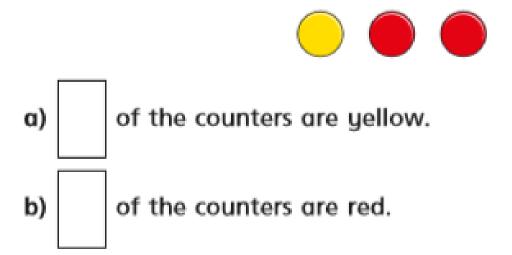
Challenge 1

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!

1) Write fractions to complete the sentences.

Please write the full sentences in your maths book.

Which is the unit fraction? How do you know?



2) Write fractions to complete the sentences.

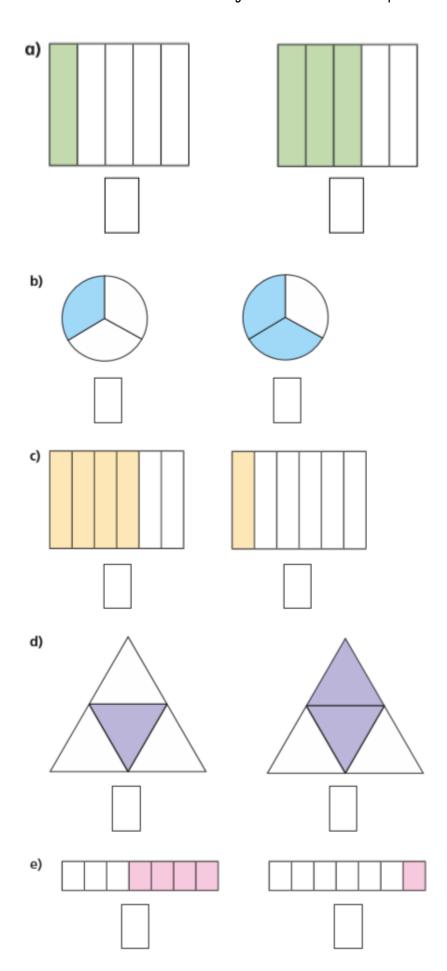
Please write the full sentences in your maths book.

Which is the unit fraction? How do you know?

a)	of	the	tower	is	green.
b)	of	the	tower	is	yellow.
c)	of	the	tower	is	blue.



3) What fraction of each shape is shaded?
Put a * beside the unit fraction in each pair.



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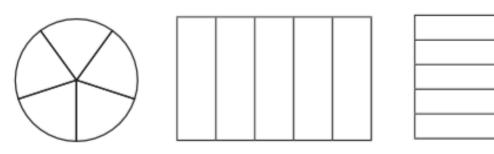
Do I understand unit and non-unit fractions?

Challenge 2

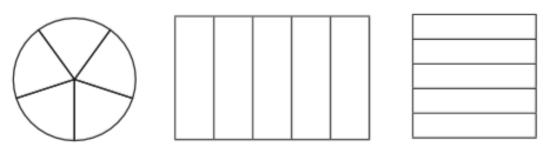
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***If you watch the video, when it says to pause and have a go at questions I and 2, this refers to the first two questions in Challenge I.

- 1) Draw these shapes in your maths book.
 - a) Colour $\frac{1}{5}$ of each shape.



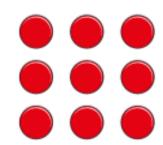
b) Colour $\frac{3}{5}$ of each shape.



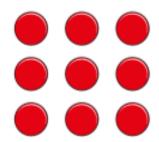
What is the same and what is different about your answers? Remember to use 'unit fraction' and 'non-unit fraction' when writing your explanation.

2) Draw the arrays in your maths book.

a) Circle $\frac{1}{3}$ of the counters.



b) Circle $\frac{2}{3}$ of the counters.



What is the same and what is different about your answers?

3) Create the table in your maths book.

Write the fractions in the table.

	<u>1</u>	2/3		34	1/10	
L	•		J	4		

0	3	4	10	0
3 5	1/4	<u>1</u>	<u>6</u>	<u>1</u> 250

Unit fractions	Non-unit fractions

Write two more examples of your own in each column.

4) Write and complete the sentences in your maths book.
An example of a unit fraction is
The numerator is always
An example of a non-unit fraction is
The numerator is always greater than

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Do I understand unit and non-unit fractions?

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.

1) Please write your answer in your maths book.

True or False?



 $\frac{1}{3}$ of the shape is shaded.

2) Create this table in your maths book and then sort the fractions into it

	Fractions equal to one whole	Fractions less than one whole
Unit fractions		
Non-unit fractions		

3	3	1_	1_	2/2	4	2	1_
4	5	3	4	2	4	5	2

Are there any empty boxes in the table? Why?

Reasoning and Problem Solving

True or False?



 $\frac{1}{3}$ of the shape is shaded.

False, one quarter is shaded. Ensure when counting the parts of the whole that children also count the shaded part.

Sort the fractions into the table.

	Fractions	Fractions	Top
	equal to	less than	1
	one whole	one whole	2
Unit			Bot
fractions			41
Non-unit			4 Q
fractions			2

Are there any boxes in the table empty? Why?

1 2
212
414
212
114
11 8
ധിന
ε I 4

Top left: Empty

Top right: $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{2}$ Bottom left: $\frac{2}{2}$ and $\frac{4}{4}$ Bottom right: $\frac{3}{4}$, $\frac{3}{5}$ and $\frac{4}{5}$ There are no unit fractions that are equal to one whole other than $\frac{1}{1}$ but this isn't in our list.