Fractions, Decimals and Percentage.

Advice and support:

Fractions, decimals and percentage are three different ways of representing "less than one".

Fractions are represented as the part (numerator) over the whole (denominator).

Decimals represent the whole as "1" so less than one uses a decimal point.

Percentage is where the whole is represented by 100 and it uses this symbol: **%**

Fraction	Decimal	Percentage
= 1	= 1	= 100%
= ½	= 0.5	= 50%
= ⅓	= 0.33	= 33.3%
= ¼	= 0.25	= 25%
= ⅕	= 0.2	= 20%
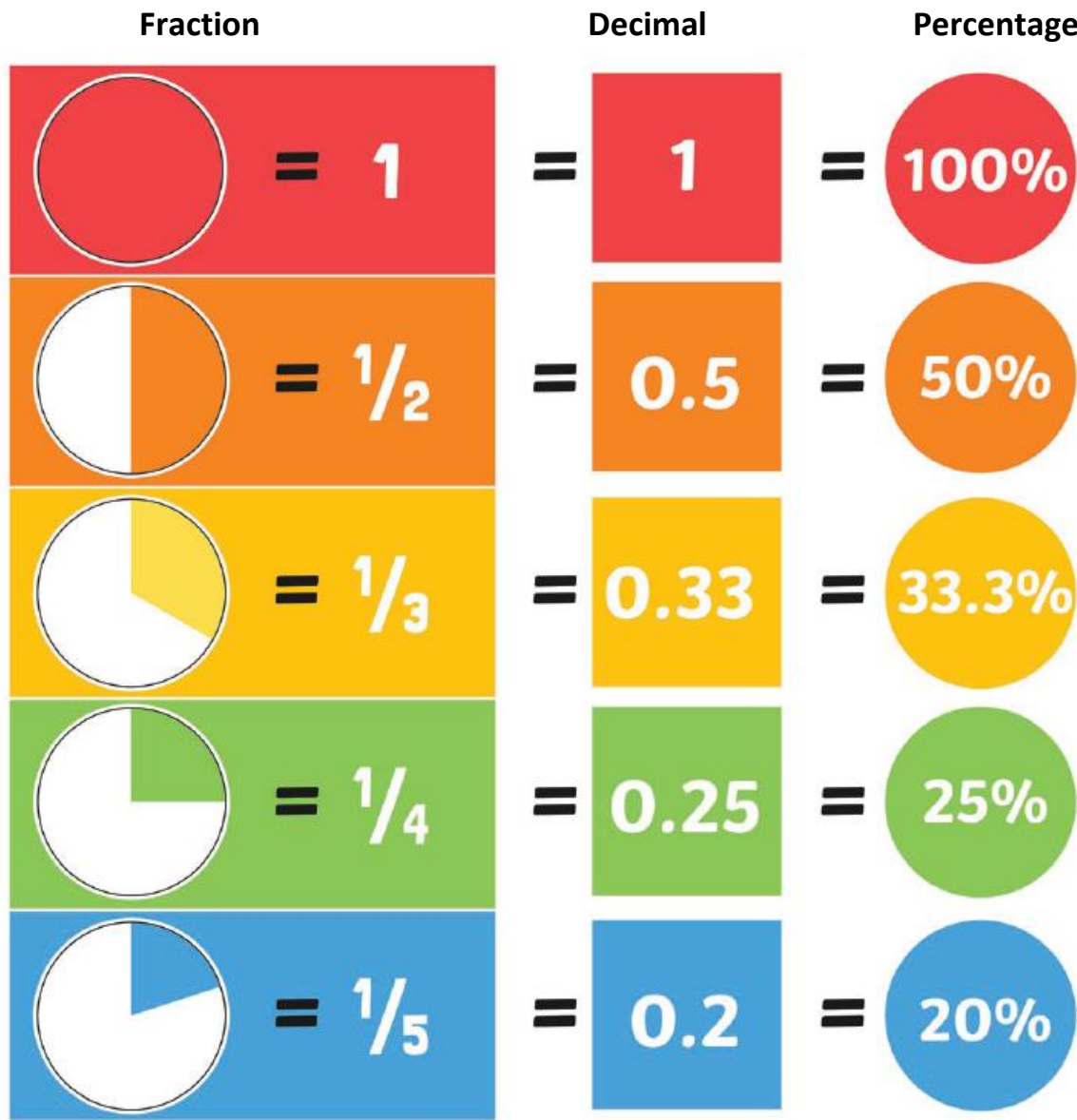
A video from the excellent "Khan Academy" uses visual representations to show how to display fractions, decimals and percentage:

https://www.youtube.com/watch?v=wwg052FC_Zw

Look at that if anything in the worksheet below becomes too challenging.

Fractions, Decimals and Percentage.

Worksheet:

Match the equal fractions, decimals and percentages.

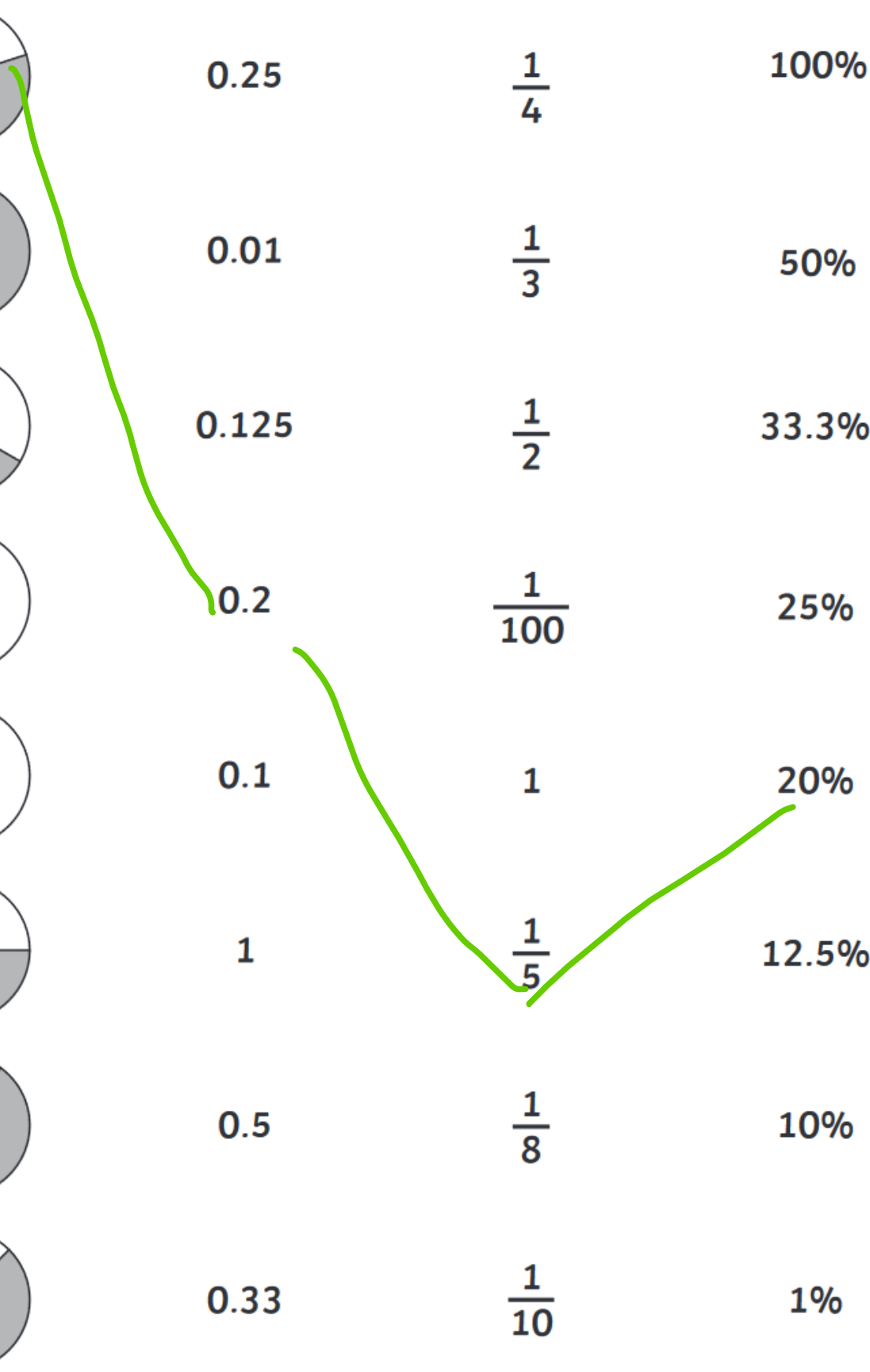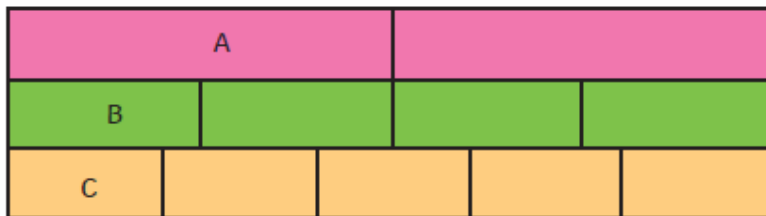|			
0.25	$\dfrac{1}{4}$	100%
0.01	$\dfrac{1}{3}$	50%
0.125	$\dfrac{1}{2}$	33.3%
0.2	$\dfrac{1}{100}$	25%
0.1	1	20%
1	$\dfrac{1}{5}$	12.5%
0.5	$\dfrac{1}{8}$	10%
0.33	$\dfrac{1}{10}$	1%
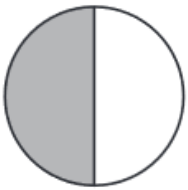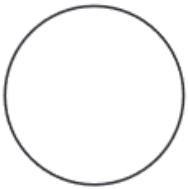
a) Look at the bar models below. Use the first bar model to help you write A, B and C as a fraction, decimal and percentage.

F	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$
D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
P	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%

A = _____ _____ _____

B = _____ _____ _____

C = _____ _____ _____

b) Use question 1 to help you complete the table.

Fraction	Decimal	Percentage
$\frac{1}{2}$		
		30%
	0.6	
$\frac{1}{4}$		
		75%
$\frac{4}{5}$		