Steps to Success

Lockdown			
Date	13.1.21		
Subject/s	<u>Maths</u>		
Learning Objective	To convert between fractions, decimals and percentages		

			SA (M)	TA	
Success Criteria	I know percentages have a denominator of 100			Λ.	
√! ■	I can use place value to write decimals as fractions				
_	I can use my knowledge of division to write fractions as decimals				
Support	Independent	<u> </u>			
Pre-task Complete the table.					
Decimal Fraction	Percentage				
0.35 $\frac{35}{100}$	35%				
0.27	\rightarrow				
0.6	\Rightarrow				
Fill in the missing boxes.					
0.72 = _\%	89% = _%				
6% = %	0.4 = %				

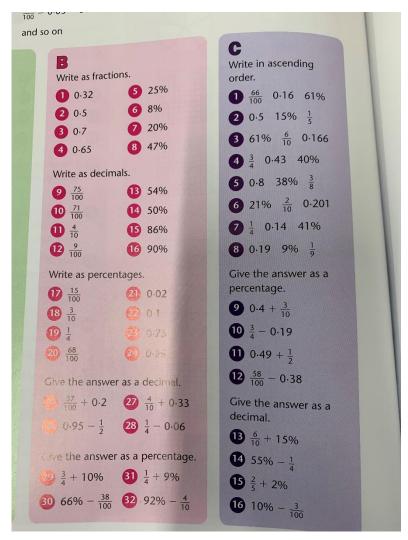
<u>Teacher Led</u>

Make sure you've watched Miss Bailey's video

Fluency

FRACTION	DECIMAL	PERCENT
1/2		
3/4		
	0.6	
		80%
	0.25	
		10%
7/10		
	0.9	

2 dojos if you simplify the fractions!



Fluency Answers

FRACTION	DECIMAL	PERCENT
1/2	0.5	50%
3/4	0.75	75%
60/ ₁₀₀ or ³ / ₅	0.6	60%
80/ ₁₀₀ or ⁴ / ₅	0.8	80%
1/4	0.25	25%
¹⁰ / ₁₀₀ or ¹ / ₁₀	0.1	10%
7/10	0.7	70%
9/10	0.9	90%

Problem Solving and Reasoning

Use it!



Convince me!



Complete the missing information using a decimal and a percentage.

Can you find more than one solution?

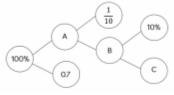
$$\frac{1}{4}$$
 = 75% - - 3 tenths

$$40\% = \frac{1}{5} + \bigcirc + \bigcirc$$

Use it!



Complete the part whole model. How many different ways can you complete it?



Can you create your own version with different values?

Explain it!

Use the digit cards to complete the missing information.



How many ways can you find?



$$\frac{\Box}{8}$$
 = 0.:[[2.5]%

Answers

- 1. 0.2 or 20%
- 2. 0.1 and 10% 0.05 and 15% 0.01 and 19%

A = 0.3, 30% or
$$\frac{3}{10}$$

B = 0.2, 20%,
$$\frac{2}{10}$$
 or $\frac{1}{5}$

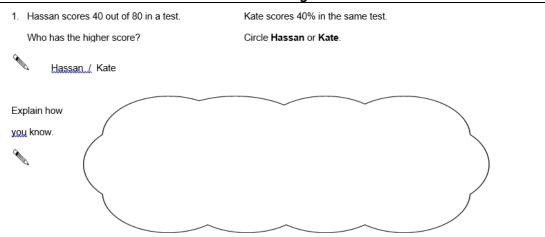
$$C = 0.1, 10\% \text{ or } \frac{1}{10}$$

$$\frac{1}{8}$$
 = 0.125 = 12.5%

or

$$\frac{5}{8}$$
 = 0.625 = 62.5%

Further Challenge



Better Spelling

In Emily's first spelling test, she scored 1 mark out of 5, so she decided to work really hard to improve her scores.

If she scores full marks (5 out of 5) in all her tests after the first, how many more tests does she need to take, in order to increase her average to more than 80%?