Hello!

We hope you and your families are safe and well.

You are required to complete today's work. Please try your very best!

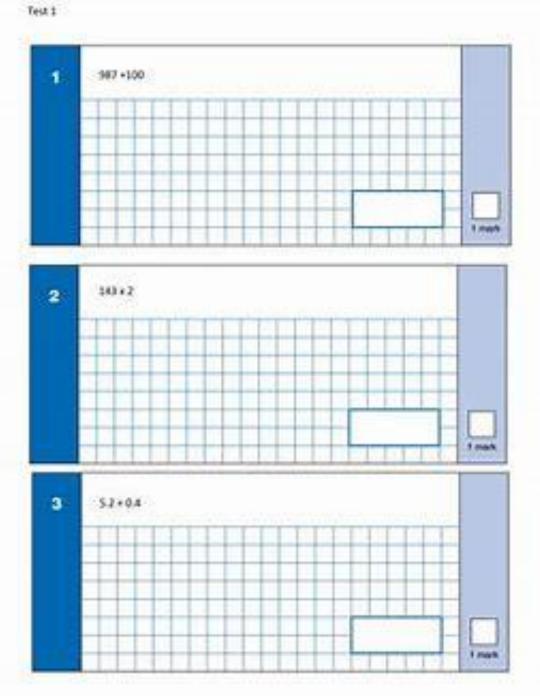
Independent work

Complete your fluency and reasoning and problem solving questions, choose the colour questions you are given in class e.g. red, blue or yellow.

$$1 \times 12 = 12$$
 $7 \times 12 = 84$
 $2 \times 12 = 24$ $8 \times 12 = 96$
 $3 \times 12 = 36$ $9 \times 12 = 108$
 $4 \times 12 = 48$ $10 \times 12 = 120$
 $5 \times 12 = 60$ $11 \times 12 = 132$
 $6 \times 12 = 72$ $12 \times 12 = 144$

$$12 \div 12 = 1$$
 $84 \div 12 = 7$
 $24 \div 12 = 2$ $96 \div 12 = 8$
 $36 \div 12 = 3$ $108 \div 12 = 9$
 $48 \div 12 = 4$ $120 \div 12 = 10$
 $60 \div 12 = 5$ $132 \div 12 = 11$
 $72 \div 12 = 6$ $144 \div 12 = 12$

Arithmetic Test



18.01.2021

L.O: To identify equivalent Fractions, Decimals and Percentages.

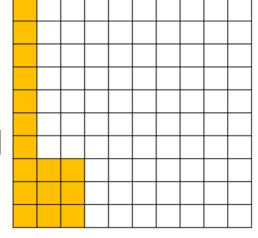
Success Criteria;

- · Use your knowledge of place value
- · Understand 'per cent' means 'out of 100'
- · Use your knowledge of equivalent decimal, fractions and percentages

Introduction

White Rose Maths

- 1a) What percentage of the hundred square is shaded?
 - b) What fraction on the hundred square is shaded?



- 2a) What percentage of the bar model is shaded?
 - b) What fraction of the bar model is shaded?

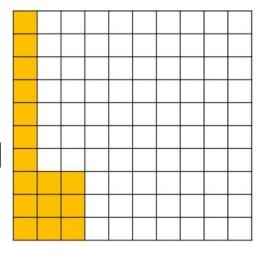
Introduction

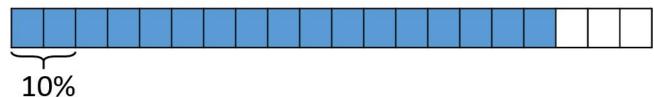
White Rose Maths

1a) What percentage of the hundred square is shaded?

16 %

b) What fraction on the hundred square is shaded? $\frac{16}{100}$ $\frac{4}{25}$





2a) What percentage of the bar model is shaded? 85 %

b) What fraction of the bar model is shaded?

17 20



Equivalent
Fractions,
Decimals and
Percentages

Fractions, Decimals and Percentages (FDP)

A fraction is made up of two parts: a numerator and a denominator. It is used to represent how many parts we have out of the total number of parts.

A decimal is a way of writing a number that is not whole.

The sign % stands for 'per cent' which means 'out of 100'.

Watch the short video on equivalent Fractions, decimals and percentages.

https://www.bbc.co.uk/bitesize/articles/zynhjsg

Equivalent FDP

Converting percentages into decimals

This has an easy method too - you just divide the percentage by 100.

Since you know that all percentages relate to a fraction that has a denominator of 100, to turn it into a decimal, you simply divide the numerator by the denominator which is always 100.

So since 59% is the same as $\frac{59}{100}$, to turn it into a decimal you have to work out 59 ÷ 100.

So:

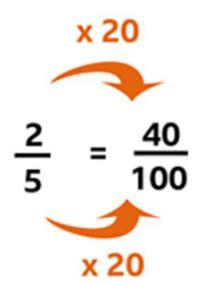
$$59 \div 100 = 0.59$$

Therefore: 59% = $\frac{59}{100}$ = 0.59

Example 2:

What is $\frac{2}{5}$ as a percentage?

- Step 1: Convert ²/₅ into an equivalent fraction with a denominator of 100.
- Step 2: Place the numerator 40 next to the per cent symbol.



Match the fraction to its equivalent percentage and decimal.

3 5

60%

0.25

<u>3</u> 4

25%

0.6

2 8

75%

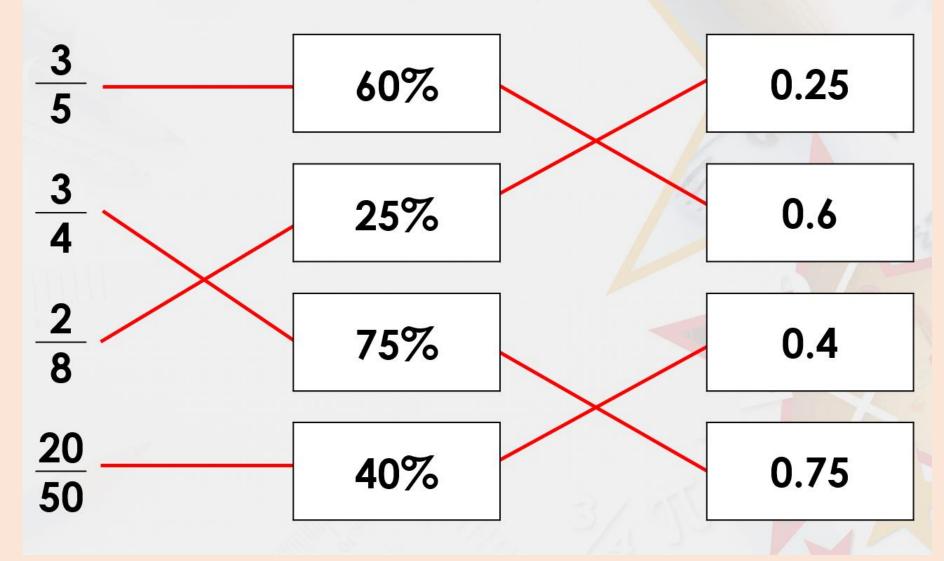
0.4

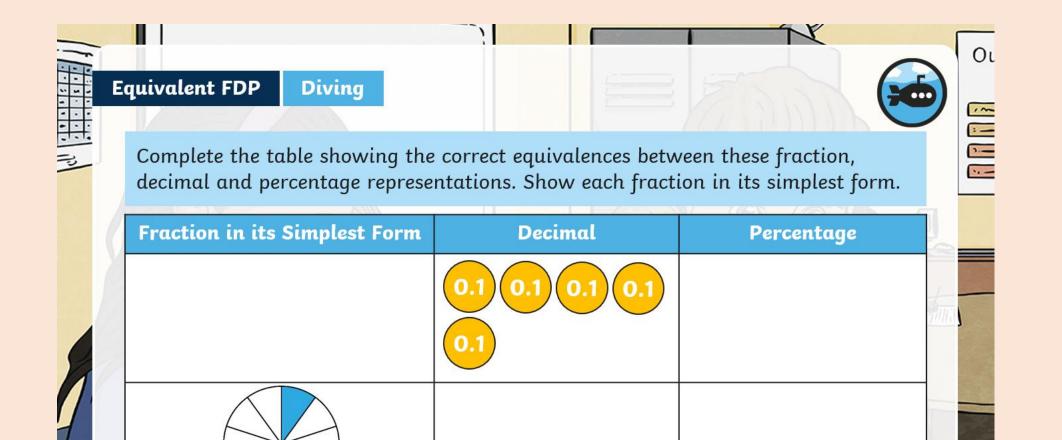
<u>20</u> 50

40%

0.75

Match the fraction to its equivalent percentage and decimal.







; ~ ; -

Complete the table showing the correct equivalences between these fraction, decimal and percentage representations. Show each fraction in its simplest form.

Fraction in its Simplest Form	Decimal	Percentage	
1/2	0.1 0.1 0.1 0.1	50%	, MIR
	0.1	10%	
<u>11</u> 20	0.55		

Reasoning 1

Jaxon says,



If I eat seven eighths of my birthday cake, there will be 0.25, or 25% left.

Do you agree? Prove it.



Reasoning 1

Jaxon says,



If I eat seven eighths of my birthday cake, there will be 0.25, or 25% left.

Do you agree? Prove it.

No, because if Jaxon eats seven eighths there will be one eighth left. One eighth is equivalent to 0.125 and 12.5%.



Problem Solving 1

Ethan scored 62.5% on his Science test.

Felix got $\frac{7}{8}$ of his answers correct.

Jaiden expresses her result as a decimal, which is 0.75.

Who scored the highest?

Show your working.

Problem Solving 1

Ethan scored 62.5% on his Science test.

Felix got $\frac{7}{8}$ of his answers correct.

Jaiden expresses her result as a decimal, which is 0.75.

Who scored the highest?

Show your working.

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

Felix:
$$\frac{7}{8}$$
 = 0.875 = 87.5%

Jaiden:
$$0.75 = 75\% = \frac{3}{4}$$

Felix scored the highest.



Complete the worksheet- converting fractions to percentages.

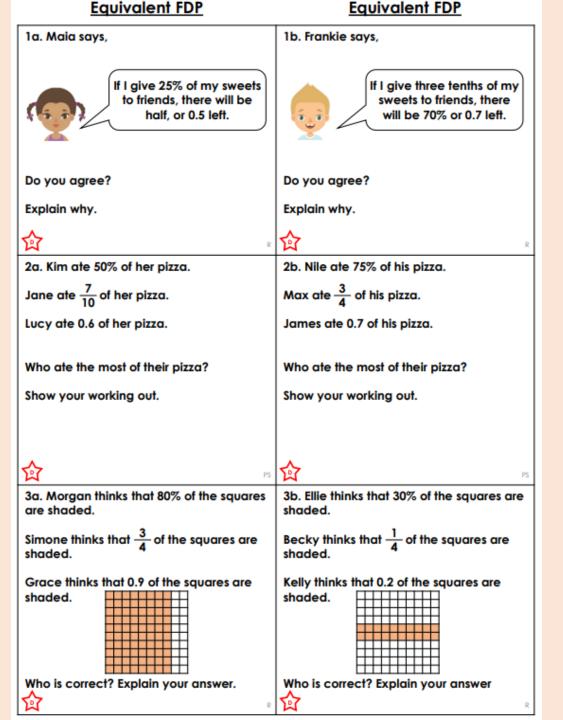
Complete the RPS worksheet (slide 16, 17 or 18) you are normally given in

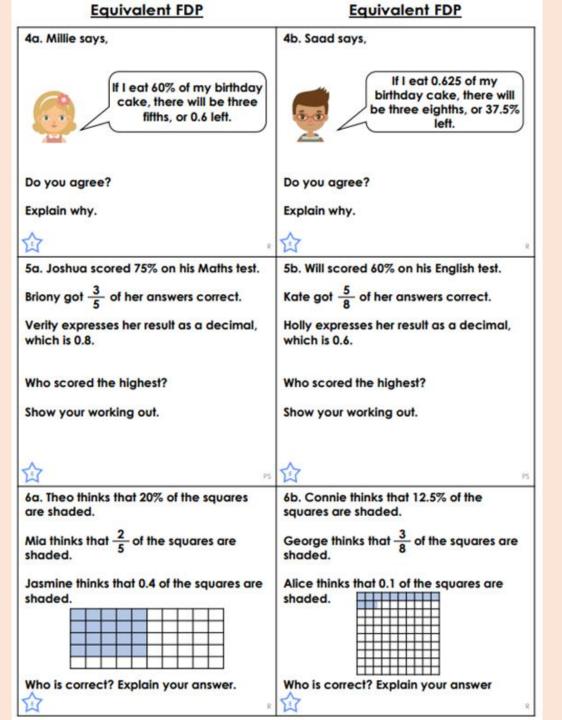
class- red, blue or yellow.

 Complete the table showing the correct equivalences between these fraction, decimal and percentage representations. Show each fraction in its simplest form.



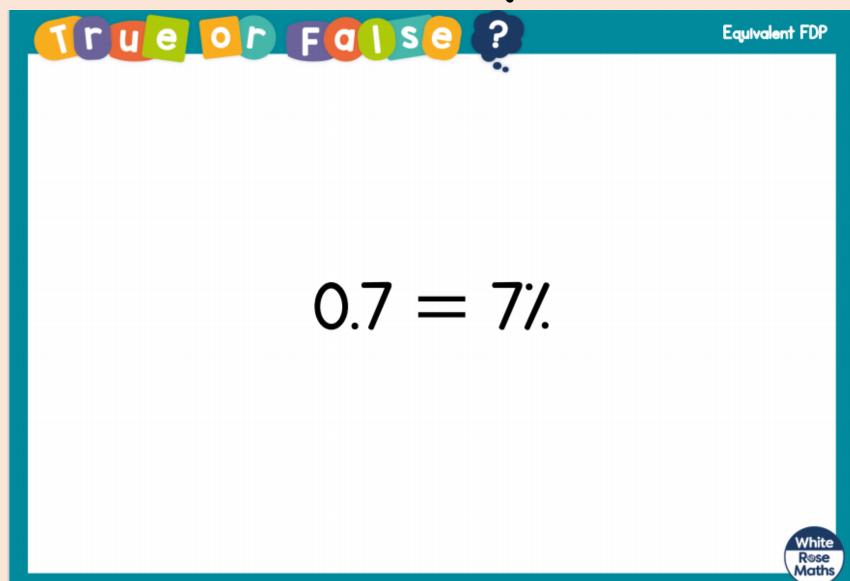
		_
Fraction in Its Simplest Form	Decimal	Percentage
	0.1 0.1 0.01	
	0.01 0.01 0.01	
	0.01	





Equivalent FDP Equivalent FDP 7a. Safeeyah says, 7b. Jacob says, Six fortieths of my cake Fourteen sixteenths of my has been eaten so there cake has been eaten so is 0.85 or 85% left. there is 0.25 or 25% left. Do you agree? Do you agree? Explain why. Explain why. 8a. Jack scored 60% on his music exam. 8b. Megan scored 85% on her tap exam. Scarlett scored 26 out of 40. Nate scored 14 out of 16. Isaac expresses his result as a decimal, Mo expresses his result as a decimal, which is 0.65. which is 0.875. Who scored the highest? Who scored the highest? Show your working out. Show your working out. 9a. James thinks that 30% of the squares 9b. Isla thinks that 70% of the squares are shaded. are shaded. Sam thinks that $\frac{3}{10}$ of the squares are Ellie thinks that $\frac{9}{15}$ of the squares are shaded. shaded. Adam thinks that 0.375 of the squares are Hafsa thinks that 0.6 of the squares are shaded. shaded. Who is correct? Explain your answer. Who is correct? Explain your answer

Plenary



Plenary



Equivalent FDP

False

$$0.7 = \frac{7}{10} = \frac{70}{100} = 70\%$$



Email your finished work to your class teacher!

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