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.

$$
\begin{array}{ll}
1 \times 12=12 & 7 \times 12=84 \\
2 \times 12=24 & 8 \times 12=96 \\
3 \times 12=36 & 9 \times 12=108 \\
4 \times 12=48 & 10 \times 12=120 \\
5 \times 12=60 & 11 \times 12=132 \\
6 \times 12=72 & 12 \times 12=144
\end{array}
$$

$$
\begin{array}{ll}
12 \div 12=1 & 84 \div 12=7 \\
24 \div 12=2 & 96 \div 12=8 \\
36 \div 12=3 & 108 \div 12=9 \\
48 \div 12=4 & 120 \div 12=10 \\
60 \div 12=5 & 132 \div 12=11 \\
72 \div 12=6 & 144 \div 12=12
\end{array}
$$

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

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

$\square$
2a) What percentage of the bar model is shaded?
b) What fraction of the bar model is shaded?

## Introduction

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?
b) What fraction of the bar model is shaded?

Fractions, Decimals and Percentages


Fractints, Dxain and Purcentagen


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.
$17 \% \div 100=0.17$
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 $\frac{\mathbf{5 9}}{\mathbf{1 0 0}}$, to turn it into a decimal you have to work out $59 \div$ 100.

So:
$59 \div 100=0.59$

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

## Example 2:

What is $2 / 5$ 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.
$\times 20$
$\frac{2}{5}=\frac{40}{100}$

$$
40 / 100=40 \%
$$

Match the fraction to its equivalent percentage and decimal.


Match the fraction to its equivalent percentage and decimal.





Jaxon says,


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 $12.5 \%$.

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 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.

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


Equivalent FDP
Equivalent FDP


Equivalent FDP
Equivalent FDP


Equivalent FDP
Equivalent FDP


Plenary

## Truedor folser?

$0.7=7 \%$

## Plenary

## Truelor folse?

False

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

## Email your finished work to your class teacher!

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ksutherland@kingsavenue.lambeth.sch.uk

