## Year 6

## Tuesday $9^{\text {th }}$ June 2020 <br> Maths

LO: equivalent fractions, decimals and percentages.
Please note: this link only works on either pdf or the link above this powerpoint.
The video lesson is available here - Summer Term - Week 6 - lesson 2


## CABPARMP PrELT:

Level 1 Level 2 Level 3 Level 4 Level 5 More Puzzles


Can you get your car out of the very crowded car park by moving other cars forwards or backwards?
Check if your solution work here.
Re-cap


$$
=\text { one hundredth }
$$

$=\frac{1}{100}=0.01$

$\left.\begin{array}{l}=\frac{10}{100} \\ =\frac{1}{10}\end{array}\right) \div$ ten hundredths $=$ one tenth $=0.1$
$\frac{50}{100}=50$ out of one hundred

If we can create a fraction out of 100 then the numerator is the percentage (amount per hundred) and to convert the to a decimal consider the place value of each digit in the numerator.


2: 0.33


Sometimes you many need to convert your fraction so that it is out of 100 .

## Example: 0.80


$80 \%$


30 \%


1: Convert $9 \%$ and 0.3 into fractions, decimals and $\quad 9 \% \quad 0.3$ percentages.

2: Four children were completing some maths work. Put the children in order of who got the most correct.
$\frac{17}{20}$ correct
$84 \%$ correct
0.8 correct

## EXT:

I'm thinking of a fraction Have a go can you guess what it is?

- It is less than $73 \%$
- It is greater than 0.4
- It has a denominator of 5
$12 \%$ incorrect


The independent work continues on the next two slides. There are 6 questions and 1 extension.
(Espanol - seis preguntas y una extensión)


## Equivalent FDP

What fraction, decimal and percentage of each grid is shaded blue?

percentage $=$

(2) Match the equivalent fractions, decimals and percentages. ,

$\frac{1}{20}$

```
0.05
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$5 \%$
0.5

0.2

## 50\%

$\frac{1}{2}$
0.15

20\%
(3) a) Shade the grid in the given proportions.



- $\frac{3}{10}$ green
- 0.03 red
- $13 \%$ blue
- 0.3 yellow
b) What proportion of the grid is unshaded?

Write your answer as a fraction, decimal and percentage.

(4)

Complete the table.

| Fraction | Decimal | Percentage |
| :---: | :---: | :---: |
|  | 0.21 |  |
| $\frac{2}{10}$ |  | $12 \%$ |
|  | 0.4 |  |
|  | 0.44 | $4 \%$ |
| $\frac{3}{4}$ |  |  |
|  | 0.99 |  |
|  |  |  |

5 Amir was asked to complete the statement using $<,>$ or $=$.


What mistake has Amir made?
(6)

Match the decimal cards to the people.


Ext: Use the digit cards to write a decimal greater than $\frac{1}{5}$ but less than $40 \%$.

You may not use a card more than once in each number.


How many other answers can you find?



The next four slides contain the answers should you wish to check you work and reflect on what you understand.


DO NOT ENTER


## Equivalent FDP

(1)

What fraction, decimal and percentage of each grid is shaded blue?

percentage $=1 \%$

fraction $=\frac{1}{10}$
decimal $=0.1$
percentage $=10 \%$

fraction $=\frac{100}{100}$
decimal $=$ $\square$
percentage $=100 \%$
(2) Match the equivalent fractions, decimals and percentages.

2

(3)
a) Shade the grid in the given proportions.


- $\frac{3}{10}$ green
- 0.03 red
- $13 \%$ blue
- 0.3 yellow
b) What proportion of the grid is unshaded?

Write your answer as a fraction, decimal and percentage.
fraction $=\frac{6}{25}$ decimal $=0.24$ percentage $=24 \%$
(4)

Complete the table.

| Fraction | Decimal | Percentage |
| :---: | :---: | :---: |
| $\frac{21}{100}$ | 0.21 | $21 \%$ |
| $\frac{3}{25}$ | 0.12 | $12 \%$ |
| $\frac{2}{10}$ | 0.2 | $20 \%$ |
| $\frac{2}{5}$ | 0.4 | $40 \%$ |
| $\frac{11}{25}$ | 0.44 | $44 \%$ |
| $\frac{1}{25}$ | 0.04 | $4 \%$ |
| $\frac{3}{4}$ | 0.75 | $75 \%$ |
| $\frac{99}{100}$ | 0.99 | $99 \%$ |

(5)

Amir was asked to complete the statement using $<,>$ or $=$.
$14 \% \gg 0.4$


What mistake has Amir made?

He havit companed them in the same form $0.4=40 \%$ and $40 \%>14 \%$ so $16 \%<0.4$

6
Match the decimal cards to the people.


Ext: Use the digit cards to write a decimal greater than $\frac{1}{5}$ but less than $40 \%$.

You may not use a card more than once in each number.
$\square$
$\square$

