Year 6

Tuesday 9th June 2020

Maths

LO: equivalent fractions, decimals and percentages.

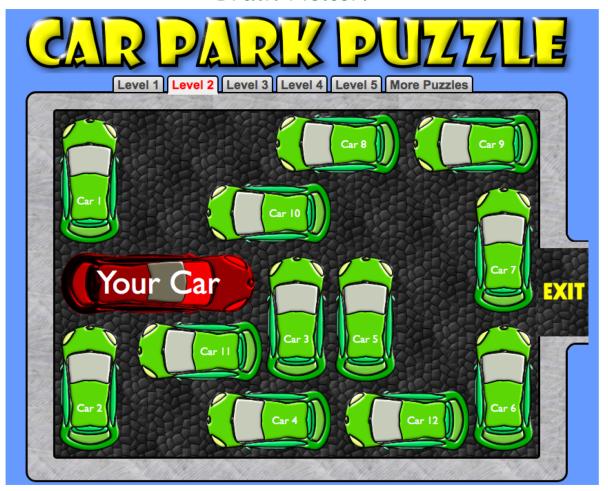
<u>Please note: this link only works on either pdf or the link above this powerpoint.</u>

The video lesson is available here – Summer Term - Week 6 - lesson 2





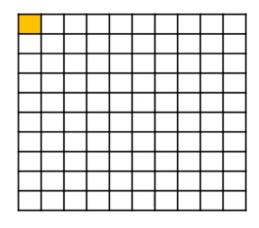
Brain Melter!



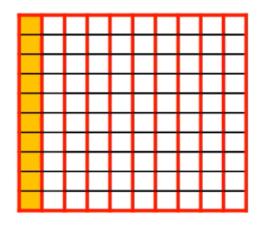
Can you get your car out of the very crowded car park by moving other cars forwards or backwards?

Check if your solution work here.

Re-cap



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



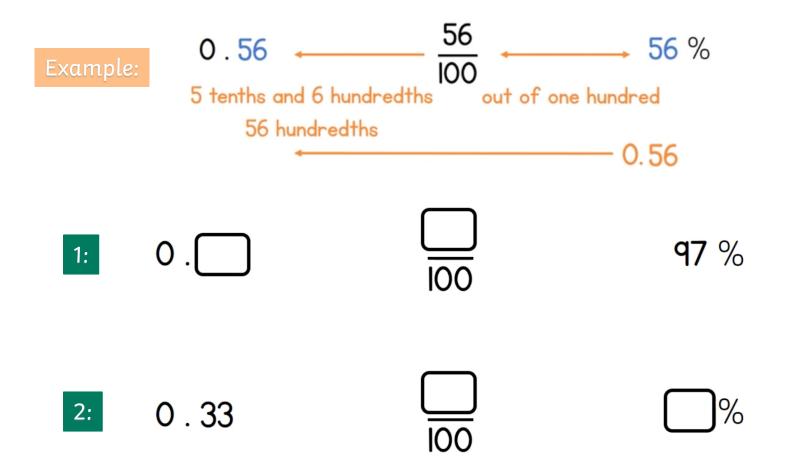
$$= \frac{10}{100}$$

$$= \frac{1}{10}$$

$$= \frac{1}{10}$$
= 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.



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

Example:

$$\frac{\cancel{4}}{5} = \frac{80}{100}$$

0.75



$$\bigcap$$
%

2:

0.



30 %

Task:

- 1: Convert 9 % and 0.3 into fractions, decimals and percentages.
- 9 % O.3

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



12 % incorrect

EXT:

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

Have a go



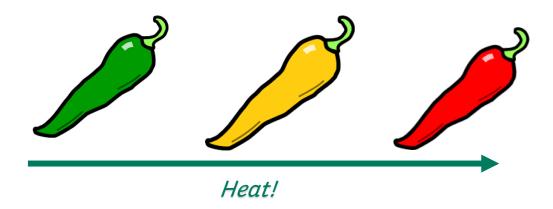
- It is less than 73~%
- It is greater than 0.4
- It has a denominator of 5





The independent work continues on the next two slides. There are 6 questions and 1 extension.

(Espanol - seis preguntas y una extensión)



Equivalent FDP



2 Match the equivalent fractions, decimals and percentages.





0.05

1 20

0.5

15%

<u>1</u> 5

0.2

50%

1 2

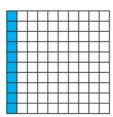
0.15

20%

decimal =

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

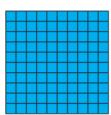
percentage =



fraction =

decimal =

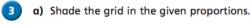
percentage =

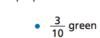


fraction =

decimal =

percentage =





• 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 = decimal = percentage =



4 Complete the table.



Fraction	Decimal	Percentage
	0.21	
		12%
2 10		
	0.4	
	0.44	
		4%
34		
	0.99	

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



14% (>) 0.4



14 is greater than 4

What mistake has Amir made?

6 Match the decimal cards to the people.









My decimal cannot be simplified when it is written as a fraction.





My decimal is 10% less than $\frac{3}{4}$





My decimal is greater than 60%.





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



0 2 3 4 5



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.





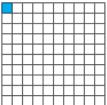


Equivalent FDP

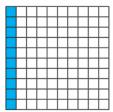


What fraction, decimal and percentage of each grid is shaded blue?

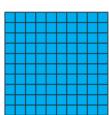




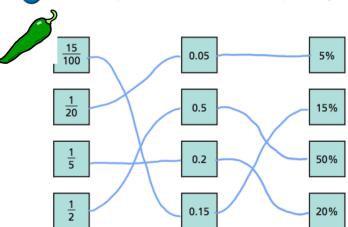
fraction =
$$\frac{1}{100}$$



fraction =
$$\frac{1}{10}$$

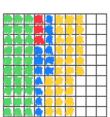


Match the equivalent fractions, decimals and percentages.



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%





Complete the table.



Fraction	Decimal	Percentage
21 100	0.21	21%
3 25	0.12	12%
<u>2</u> 10	0.3	20 %
<u>2</u> 5	0.4	40 %
<u>11</u> 25	0.44	44 %
25	0.04	4%
3 4	0.75	75 %
99	0.99	99 %

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

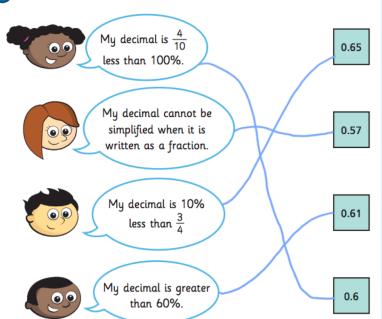




What mistake has Amir made?

He happit compared them in the same form 0.4=40% and 40% > 14% so 14% so 14%

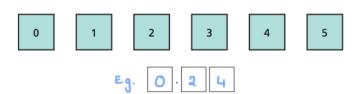
6 Match the decimal cards to the people.



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?





