## Year 6

## Wednesday 10 ${ }^{\text {th }}$ June 2020 Maths

LO: ordering 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 3


## Brain Melter!

## CARPART3PTEECLIT

$\sqrt{\text { Level 1 }} \sqrt{\text { Level 2 } 2 \sqrt{\text { Level } 3} \text { Level } 4 \longdiv { \text { Level 5 } } \text { More Puzzles }}$


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.

$=$ one hundredth
$=\frac{1}{100}=0.01$
$=1$ percent
'out of' 'one hundred'

Using the 100 square can you order the following fractions, decimals and percentages from smallest to largest?


Another way to order would be to convert them all to fractions with the same denominator Look again at number 2. You have 62/100, 59/100 and 60/100.

## Answers

1: $\quad 0.97 \quad 95 \%$ $\frac{3}{4}$
2: 0.62
59 \% $\frac{3}{5}$

$$
\begin{array}{llllll}
\frac{3}{4} & 95 \% & 0.97 & 59 \% & \frac{3}{5} & 0.62
\end{array}
$$

Another way to order would be to convert them all to fractions with the same denominator Look again at number 2. You have 62/100, 59/100 and 60/100.

Rosie and Dora are comparing
$0.6 \quad \frac{2}{5} \quad \| \%$


I don't think that's right, but I'm not sure how to explain it...


## EXTENSION:

Order the following from smallest to greatest $\frac{5}{20} \quad 19 \% \quad 0.18$

## Answers



## EXTENSION:

Order the following from smallest to greatest

$$
\frac{5}{20}=\frac{25}{100}
$$

$$
19 \%=\frac{19}{100}
$$

$$
0.18=\frac{18}{100}
$$

$$
\frac{5}{20} \quad 19 \% \quad 0.18
$$

$0.18 \quad 19 \% \quad \frac{5}{20}$


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


## Order FDP

(1) Write $<$, > or $=$ to complete the statements.
a) $64 \%$
 0.46
d)

b) 0.96
 $\frac{97}{100}$
e) $67 \%$

c)
 $35 \%$
f) $\frac{7}{20} \bigcirc 0$. 0.3

2 Draw arrows to estimate the positions of the fractions, decimals and percentages on the number line.
a) $9 \% \quad \frac{9}{10} \quad 0.99 \quad 19 \%$

b) $0.6 \quad 61 \% \quad \frac{37}{50} \quad 0.66$
c) $47 \% \quad 0.89 \quad \frac{63}{100} \quad 12 \%$
d) Which part was easiest to order: a), b) or c)? $\qquad$ Why?
$\qquad$
e) Which set was most difficult to order: a), b) or c)? $\qquad$ Why?
$\qquad$
f) Compare answers with a partner.

What is the same and what is different?These fractions, decimals and percentages are in descending order. 99\%

$$
\frac{89}{100}
$$

$\square$

Tick the fractions, decimals and percentages that could fill the gap.

(5) Tommy scored $\frac{40}{50}$ on a Maths test.

Aisha got 78\% of the test correct.
Aisha thinks she has done better because 78 is greater than 40
Do you agree with Aisha? $\qquad$
Explain your answer.
$\qquad$
$\qquad$

6 Huan, Nijah and Scott each started with a 1 -litre bottle of juice.

Huan drank 0.55 litres.

Nijah drank 59\% of her juice.

Scott has $\frac{4}{10}$ of his juice left.


Who drank the most? Show your working.
$\qquad$ drank the most.

Who drank the least? Show your working.
$\qquad$

## drank the least.

## Ext: a) Use the digit cards to make the statement correct.



$$
0.3<\frac{\square}{10}<80 \%
$$

How many different solutions can you find?
b) Use the digit cards to write a percentage greater than $\frac{2}{5}$ but less than 75\%.


How many different percentages can you find?

Compare answers with a partner.
ex ere



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


DO NOT ENTER

(1) Write $<,>$ or $=$ to complete the statements.
a) $64 \%$

0.46
b) 0.96

d) $0.8=80 \%$
e) $67 \%<\frac{7}{10}$
c) $\frac{3}{5}>35 \%$
f) $\frac{7}{20}>0.3$


Write the fractions, decimals and percentages in ascending order.
a) $\frac{7}{10} \quad \frac{13}{100} \quad 21 \% \quad 0.9$

b) 0.6 $61 \% \quad \frac{37}{50}$ 0.66
$\qquad$
c) $47 \%$
$0.89 \quad \frac{63}{100}$
$12 \%$
$\qquad$
d) Which part was easiest to order: a), b) or c)? $\qquad$ Why?

Vanioun answers.
e) Which set was most difficult to order: a), b) or c)? $\qquad$ Why?

Vescions anowers
f) Compare answers with a partner.

What is the same and what is different?
(4)

These fractions, decimals and percentages are in descending order.
99\%
$\frac{89}{100}$
0.7

0.5
49 \%

Tick the fractions, decimals and percentages that could fill the gap.


Tommy scored $\frac{40}{50}$ on a Maths test.

Aisha got 78\% of the test correct.
Aisha thinks she has done better because 78 is greater than 40 Do you agree with Aisha? $\qquad$ _

Explain your answer.

better.

6 Huan, Nijah and Scott each started with a 1-litre bottle of juice.

Huan drank 0.55 litres.

Nijah drank 59\% of her juice.

Scott has $\frac{4}{10}$ of his juice left.


Who drank the most? Show your working.
$\qquad$ drank the most.

Who drank the least? Show your working.
$\qquad$ drank the least.

Ext: a) Use the digit cards to make the statement correct.

$0.3<\frac{4}{10}<80 \%$

How many different solutions can you find?

## Varions anowe/s

b) Use the digit cards to write a percentage greater than $\frac{2}{5}$ but less
than $75 \%$.

$$
\frac{2}{5}<0.43<0.75
$$

How many different percentages can you find?

## Various answers.

Compare answers with a partner.


