Year 6

Wednesday 10th June 2020

Maths

LO: ordering fractions, decimals and percentages.

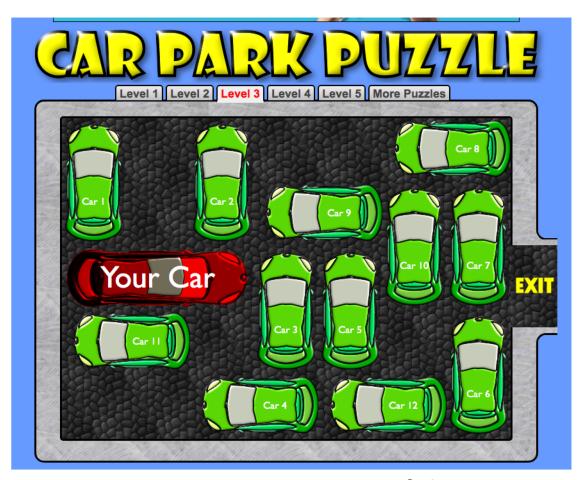
<u>Please note: this link only works on either pdf or the link above this powerpoint.</u>

The video lesson is available here – Summer Term - Week 6 - lesson 3





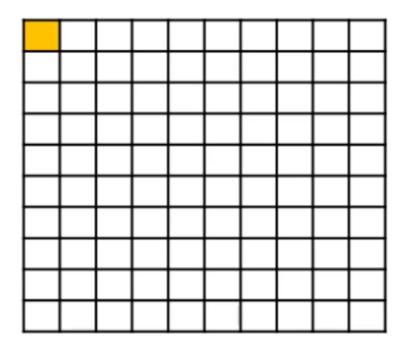
Brain Melter!



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.

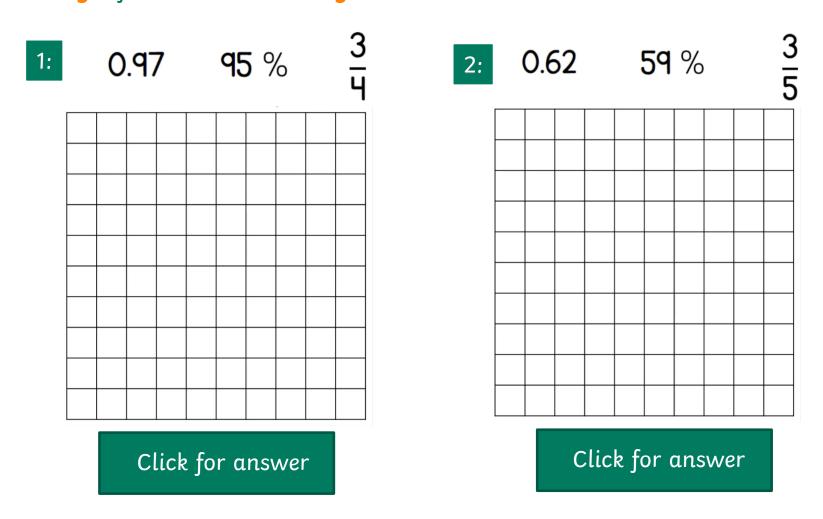
Re-cap



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

'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

0.97

95 %

2: 0.62 59 %

95 %

0.97

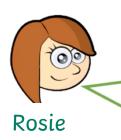
Another way to order would be to convert them all to fractions with the same denominator Look again at number 2. You have 62/100, 59/100 and 60/100.

Can you help Dora to explain?

Rosie and Dora are comparing

0.6 $\frac{2}{5}$





Il % is the largest, because Il is the biggest number. $\frac{2}{5}$ is the smallest because 5 is the smallest number.

|| %

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

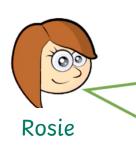


Dora

EXTENSION:

Order the following from $\frac{5}{20}$ I9 % 0.18

Answers



 \parallel % is the largest, because \parallel is the biggest number. $\frac{2}{5}$ is the smallest because 5 is the smallest number.

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



EXTENSION:

Order the following from smallest to greatest

I9 %

81.0

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

$$19 \% = \frac{19}{100} \qquad 0.18 = \frac{18}{100}$$

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

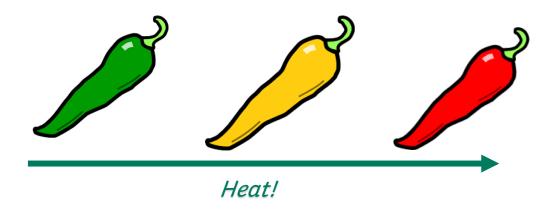
0.18 Iq %
$$\frac{5}{20}$$





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.

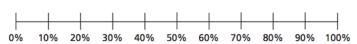


- a) 64% () 0.46
- d) 0.8 () 80%
- **b)** 0.96 $\left(\right)$ $\frac{97}{100}$
- e) 67% $\left(\right) \frac{7}{10}$
- c) $\frac{3}{5}$ 35%
- f) $\frac{7}{20}$ 0.3

2 Draw arrows to estimate the positions of the fractions, decimals and percentages on the number line.



19%



b) $\frac{2}{5}$

0.52

0



3 Write the fractions, decimals and percentages in ascending order.



a) $\frac{7}{10}$

13

6



b) 0.

51%

0.66

~	1	7	0,
•	-	•	7

0.89

10

12%

d) Which part was easiest to order: a), b) or c)?

Why?

e) Which set was most difficult to order: a), b) or c)? _____

Why?

f) Compare answers with a partner.

What is the same and what is different?







99%

89 100

0.7

0.5

49%

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

0.78

51%

<u>3</u>

0.6

4 10



Aisha got 78% of the test correct.

Aisha thinks she has done better because 78 is greater than 40

Do you agree with Aisha? _____

Explain your answer.

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.

_____ drank the most.

Who drank the least? Show your working.

drank the least.

Ext:

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



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%.

$$\begin{bmatrix} 0 & 2 & 3 & 4 & 6 & 7 \\ & \frac{2}{5} < & & < 0.75 \end{bmatrix}$$

How many different percentages can you find?

Compare answers with a partner.













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







Order FDP

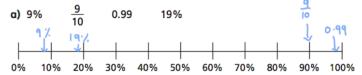


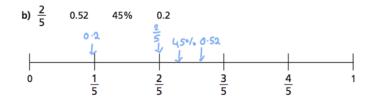
Write <, > or = to complete the statements.



- **a)** 64%

Draw arrows to estimate the positions of the fractions, decimals and percentages on the number line.





Write the fractions, decimals and percentages in ascending order.





 $\frac{13}{100}$, 21%, $\frac{7}{10}$, 0.9

b) 0.6

0.66

c) 47%

0.89

12%

d) Which part was easiest to order: a), b) or c)? Why?

Votique anowers.

e) Which set was most difficult to order: a), b) or c)? _____ Why?

Marians answers

f) Compare answers with a partner.

What is the same and what is different?





These fractions, decimals and percentages are in descending order.



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





Aisha got 78% of the test correct.

Aisha thinks she has done better because 78 is greater than 40

Do you agree with Aisha? No

Explain your answer.



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.

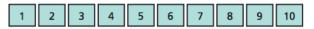
drank the most.

Who drank the least? Show your working.

Huan drank the least.

Ext:

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



How many different solutions can you find?

Various answers.

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?

Vorious answers.

Compare answers with a partner.



