





Steps to Success

Lockdown

Date	Lesson 3
Subject/s	Maths
Learning Objective 	To compare and order decimals

		SA 	TA 
Success Criteria 	I can place the numbers in a place value grid		
	I can start with the highest value column		
	I can compare digits from the same column		
Support	Independent	Adult Support ()	Group Work

Pre-task

Put into ascending order (from smallest to largest).

3.28, 2.17, 3.9, 1.39, 3.6, 1.7, 3.32, , 2.6, 1.57

Check your answers on the next page before moving onto Teacher Led if you need it.

Pre-task answers

$1.39 < 1.57 < 1.7 < 2.17 < 2.6 < 3.28 < 3.32 < 3.6 < 3.9$

Teacher Led

- First, you need to draw a place value grid

10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	
	2	.	3	2	
	2	.			
	2	.	2	3	2
	2	.	3		

We will begin by putting this sequence of numbers onto the place value grid:

2.32, 2, 2.232, 2.3

10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	
	2	.	3	2	0
	2	.	0	0	0
	2	.	2	3	2
	2	.	3	0	0

Next, put in zeros as place holders. Usually these are not needed, but they will help us to compare the numbers.

10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	
	2	.	3	2	0
	2	.	0	0	0
	2	.	2	3	2
	2	.	3	0	0

Now we need to look for the smallest number.

Begin by looking at the digits on the left. I can see these are all 2, so I need to look at the next digit.

I can see that in this column there are two 3s, one 2 and a 0, so I can see my smallest number is 2.000 or 2.

10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
2	.	3	2	0
2	.	0	0	0
2	.	2	3	2
2	.	3	0	0

The first number to put in my ascending sequence is 2, so I can cross that one off.

Now I will look for the next smallest number, using the same method as before. Then I will repeat this until I have done all the numbers.

I will write them as an ascending sequence for my answer using < to show which is greater and smaller

Answer:

$$2 < 2.232 < 2.3 < 2.32$$

Fluency

Put these decimal numbers into ascending order (smallest to largest)

A)

- 1) 1.53, 3.15, 1.33, 1.35,
- 2) 5.61, 6.51, 15.6, 5.16
- 3) 2.78, 0.78, 2.07, 0.87
- 4) 7.23, 7.33, 7.22, 7.32

B)

- 1) 3.37, 3.77, 3.337, 3.377, 3.737
- 2) 6.446, 6.66, 6.44, 6.664, 6.4
- 3) 2.55, 2.225, 2.522, 2.25, 2.525
- 4) 9.989, 9.898, 9.888, 9.99, 9.89

Answers

A)

- 1) $1.33 < 1.35 < 1.53 < 3.15$
- 2) $5.16 < 5.61 < 6.51 < 15.6$
- 3) $0.78 < 0.87 < 2.07 < 2.78$
- 4) $7.22 < 7.23 < 7.32 < 7.33$

B)

- 1) $3.337 < 3.37, 3.77 < 3.737 < 3.377$
- 2) $6.4 < 6.44 < 6.446 < 6.66 < 6.664,$
- 3) $2.225 < 2.25 < 2.522 < 2.525 < 2.55$
- 4) $9.888 < 9.89 < 9.898 < 9.989 < 9.99$

Problem Solving and Reasoning

Explain it!



Jess says,



3.105 is greater than 3.2
because it has more digits

Do you agree? Explain why.

Explain it!



Qasim says;



*"The more decimal
places a number
has, the smaller
the number is."*

Do you agree?
Explain why.

Answers

Incorrect

3.2 is greater because it has 2 tenths whereas 3.105 only has 1 tenth

I do not agree with this as the number 4.39 is smaller than the number 4.465, which has more decimal numbers.

