## Maths

#### Number and Place Value



Maths | Place Value | Read and Write Numbers | Lesson 7 of 7: Compare and Order Decimals

# Need a coherently planned sequence of lessons to complement this resource?





#### Aim

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• To order and compare numbers up to 10 000 000.

#### **Success Criteria**

- I can identify the value of each digit in decimal numbers.
- I can compare decimal numbers.
- I can order decimal numbers.

#### **Remember It**



Wheichröfteheseprepresentiations is oblation of the second free. All other numbers represent Expanogod represented by the words.



#### Get in Line

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Each person has a number card.

Your whole class challenge is to stand in a line so that all your numbers are in order from smallest to biggest!

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You can show your number card to others, but you are not allowed to talk.

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3.27 3.4										
Strange (S)										
3.27 is larger b	pecause 27 is larger	than 4.								
5	na in mor	The same for								
		and the second second								
tens	ones	tenths	hundredths							
tens	ones 3	tenths 2	hundredths 7							

REGENT STUDIES

making comparisons.











#### $\sim$ ) **Comparing Decimals** Which mathematical symbol satisfies the calculation shown? Discuss with a partner. tenths hundredths thousandths tens ones 53.310 < REGENTS



#### **Ordering Decimals**

When ordering decimal numbers, we use the same technique of comparing the place value of the digits in each number.

0.4	4.4	0.04	4.04	0.44		

Razia puts these decimal numbers in order from smallest to largest. Do you agree with how she has ordered them? Explain why or why not.



#### **Ordering Decimals**



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	0.04	<b>–</b> 0	.4	0.44	4.04		4.4	
	No. of Concession, Name	and the second se	CONTRACTOR OF THE OWNER.		1. A.A.	and the second se		

Razia has ordered these decimal numbers correctly. She has compared the value of each digit in each number.

- 0.04 has zero ones, zero tenths and four hundredths.
- 0.4 has zero ones and four tenths.
- 0.44 has zero ones, four tenths and four hundredths.
- 4.04 has four ones, zero tenths and four hundredths.
- 4.4 has four ones and four tenths.







#### **Number Line Squeeze**

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Play 'Number Line Squeeze' to order and compare decimal numbers. You will work with a partner to play this game. You will need one dice between two.

The game is played on a labelled number line. You will take it in turns to roll a decimal number and write it in the correct place on the number line. Your partner will then do the same - roll a number and write it on the number line.

The aim of the game is to get three numbers in order on the number line without your partner squeezing a number in between them! Let's look at an example now.



#### Number Line Squeeze

These two children are working together.



2.54

2.36

Elisa rolls first. She rolls three times and gets a 3, a 1 and a 2. She decides to make 2.13. She writes it on the number line in green.

Max now rolls the dice. He rolls a 4, a 3 and a 2. He makes 4.32 and writes it on the number line in blue.

Elisa rolls a 2, a 5 and a 4. She makes 2.54 and writes it on the number line. She now has two numbers in order on the number line! She only needs one more to win.

Max rolls a 3, a 2 and a 6. He makes 2.36. He can squeeze this in between Elisa's numbers on the number line.

4.32

#### Number Line Squeeze

Max and Elisa keep playing until one person gets three numbers in order without any of their partner's numbers squeezed in between them.

#### Now it's over to you!



#### Diving into Mastery

#### Dive in by completing your own activity!

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			<							<				_ > 4.07	.[
C	00	000	888	r	00	000	0	00	00	0000	12	00		E	ak
Th	н	T	0	• ±	100	0052	Th	н	т	0	• ±	100	6001	-	LH
d) a)	Write compa	5.32, 5.2 a numbe rison ste	r that is	larger	than th	e top value a	nd less than	the bot	tom val	ue to co	mplete	the		nade.	tor
c)	4.09,4	4.9, 4.09	4, 4.4, 4	.49											
b)	7.43, 7	7.34, 7.3	, 7.1												
α)	56.32,	54.1, 5	6.3, 56.2	1, 55.7	,										
a)	56.32	54.1.5	6.3. 56.2	1. 55.7	nding o	rder.									

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