
















# Fractions: Comparing Decimals

<p><b>Aim:</b> Read, write, order and compare numbers with up to three decimal places.</p> <p>I can compare numbers with up to three decimal places.</p>	<p><b>Success Criteria:</b> I can read and write numbers with up to three decimal places.</p> <p>I can compare the value of digits in the same place value position.</p> <p>I can use &lt; and &gt; to compare numbers.</p>	<p><b>Resources:</b> <a href="#">Lesson Pack</a></p> <p>Whiteboards and pens - class set</p>
<p><b>Key/New Words:</b> Decimal place, decimal point, tenths, hundredths, thousandths, compare, place value.</p>	<p>I can compare numbers with different numbers of decimal places.</p>	<p><b>Preparation:</b> <a href="#">Decimal Number Cards</a> - one set per group, cut up</p> <p><a href="#">Differentiated Decimal Number Chains Activity Sheets</a> - one per child</p>

**Prior Learning:** It will be helpful if children understand decimal place value including thousandths.

## Learning Sequence

	<p><b>Decimal Missing Numbers:</b> Identify the decimal number that needs to be added to the number shown on the <a href="#">Lesson Presentation</a> to total one. Discuss how children could use their knowledge of number bonds to 10 and 100 to help with this.</p>	
	<p><b>Comparing Decimals:</b> Use the text and images displayed on the <a href="#">Lesson Presentation</a> to remind the children that when comparing decimal numbers, we look at the place value of the digits in each number and start with the digits in the largest place value position. Remind the children that if the numbers have the same digit in a place value position, we look at the digits in the next place value column to find a difference. Rehearse using the greater than and less than symbols to compare decimal numbers.</p>	
	<p><b>Which Number Fits?</b> Provide each group with the <a href="#">Decimal Number Cards</a>. The children deal out the cards. For each of the five statements shown on the <a href="#">Lesson Presentation</a>, the children identify if they have a card that can complete the statement.</p>	
	<p><b>Decimal Number Comparing:</b> In pairs, children decide which symbols would go between the three numbers shown on each of the two slides on the <a href="#">Lesson Presentation</a> in order to correctly complete the comparison statements.</p>	
	<p><b>Decimal Number Chains:</b> Children complete the differentiated <a href="#">Decimal Number Chains Activity Sheets</a> to show they can compare numbers with up to three decimal places.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Children compare numbers with the same number of decimal places.</p> </div> <div style="text-align: center;">  <p>Children start by comparing numbers with the same number of decimal places and then move on to comparing numbers with different numbers of decimal places.</p> </div> <div style="text-align: center;">  <p>Children compare numbers with different numbers of decimal places.</p> </div> </div>	
	<p><b>Decimal Number Puzzle:</b> On their whiteboards, children find a way to complete the decimal number statement shown on the <a href="#">Lesson Presentation</a>. If they correctly create a statement that is different from that of anyone else in their group, they score a point. The highest score at the end wins.</p>	

## Masterit

- Jumpit:** Children jump as far as they can and measure the distance jumped. They then repeat this so that they have measurements for two jumps. They write a comparison statement about the two jumps. This could be repeated for throwing a beanbag, timing a run or any other activity which can be measured to more than one decimal place.
- Makeit:** Give children four digits. They use these digits to make as many numbers under 10 as they can and then compare the numbers they have created.



# Maths

## Fractions

# Comparing Decimals



# Aim

- I can compare numbers with up to three decimal places.

# Success Criteria

- I can read and write numbers with up to three decimal places.
- I can compare the value of digits in the same place value position.
- I can use  $<$  and  $>$  to compare numbers.
- I can compare numbers with different numbers of decimal places.

# Decimal Missing Numbers



What is the missing number in this decimal number addition calculation?

$$0.6 + 0.?4 = 1$$

$$0.3 + 0.?7 = 1$$

$$0.1 + 0.?9 = 1$$

$$0.8 + 0.?2 = 1$$

# Decimal Missing Numbers



What is the missing number  
in this decimal number  
addition calculation?

$$0.25 + 0.?75 = 1$$

$$0.84 + 0.?16 = 1$$

$$0.42 + 0.?58 = 1$$

$$0.91 + 0.?09 = 1$$

How can we use our  
number bonds to  
100 to help find the  
missing number?

# Comparing Decimals



For example, to compare 45.23 and 45.25, we look at the largest digit, the tens, first:

*the digits in the largest*

When comparing numbers, we can use symbols to show which is the smaller or larger number.

$$45.23 < 45.25$$

*the right until we find a difference.*



T	O	●	t	h
4	5	●	2	3
same	same	●	same	is less than
4	5	●	2	5



is less than



is greater than

# Comparing Decimals



Choose the correct symbol to compare these decimals.



0.456  0.426





# Comparing Decimals



Choose the correct symbol to compare these decimals.



0.213  > 0.211



# Comparing Decimals



Choose the correct symbol to compare these decimals.



1.705  1.725



# Comparing Decimals



Choose the correct symbol to compare these decimals.



3.184 > 2.184



# Comparing Decimals



Choose the correct symbol to compare these decimals.



16.392  16.401



# Comparing Decimals



<

is less  
than

>

is greater  
than

$$5.234 < 52.34$$

T	O	●	t	h	th
0	5	●	2	3	4
is less than		●			
5	2	●	3	4	0

For example, to compare 5.234 and 52.34, we could imagine that there are zeros holding the extra spaces in the place value grid.

# Whose Number Fits?



## Round 5

- Deal out   $< 0.803$
- In each round, read the statement shown on the slide and decide if you have a card that can complete the statement.
- Score one point for any card that can complete the statement.



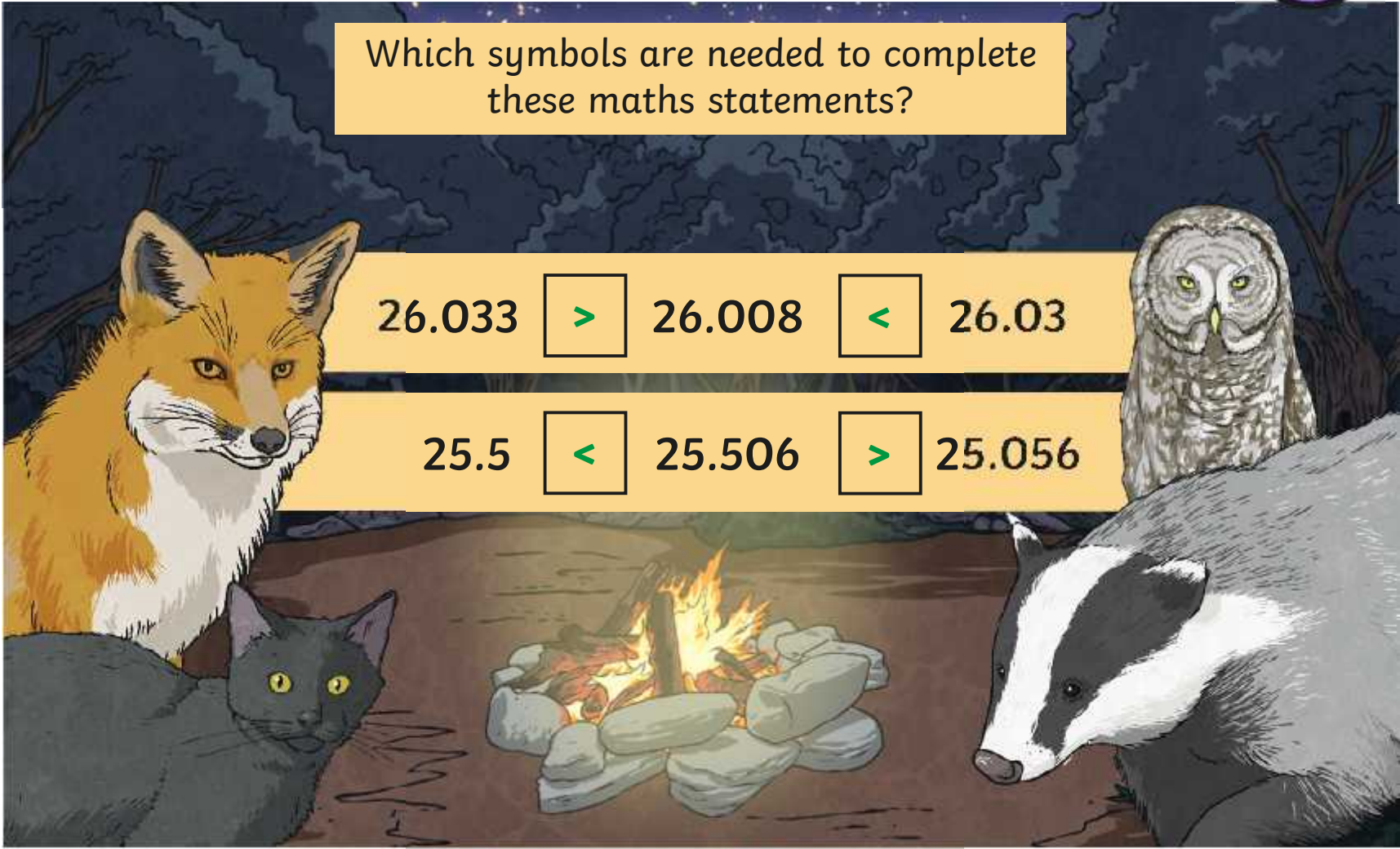
# Decimal Number Comparing



Which symbols are needed to complete these maths statements?

26.033  26.008  26.03

25.5  25.506  25.056



# Decimal Number Chains



**Decimal Number Chains**

I can compare numbers with up to three decimal places.

Complete the chains by putting the correct symbol between each pair of numbers.

< is less than      > is greater than

4.3	=	4.0
9.45	=	9.41
3.2	=	3.1

**Decimal Number Chains**

I can compare numbers with up to three decimal places.

Complete the chains by putting the correct 'greater than' or 'less than' symbol between each pair of numbers.

15.64	15.48	15.49	16.05	16.51	16.5	16.29	
72.128	72.291	72.229	72.204	72.213	72.109	71.999	72.009
59.51	59.5	59.403	59.42	59.423	59.09	59.009	72.909
67.059	67.053	67.1	67.107	67.136	67.13	67.03	67.3

**Decimal Number Chains**

I can compare numbers with up to three decimal places.

Complete the chains by selecting numbers which will fit between the symbols.

20.76	=		=		=	20.822	=		=		=	20.5
88.05	=		=		=	88.3	=		=		=	88.7



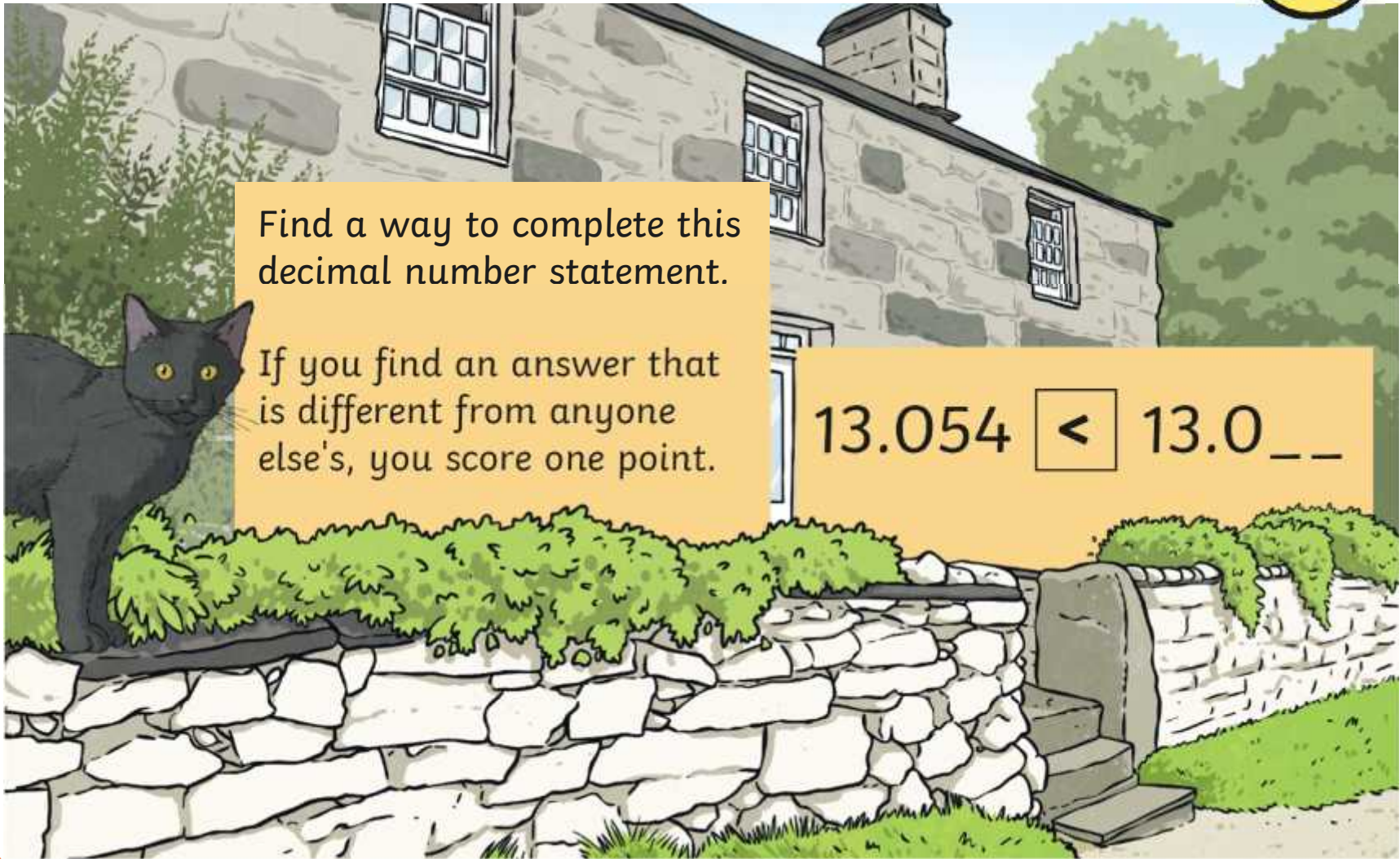
# Decimal Number Puzzle



Find a way to complete this decimal number statement.

If you find an answer that is different from anyone else's, you score one point.

$$13.054 \quad \boxed{<} \quad 13.0\_\_\_$$



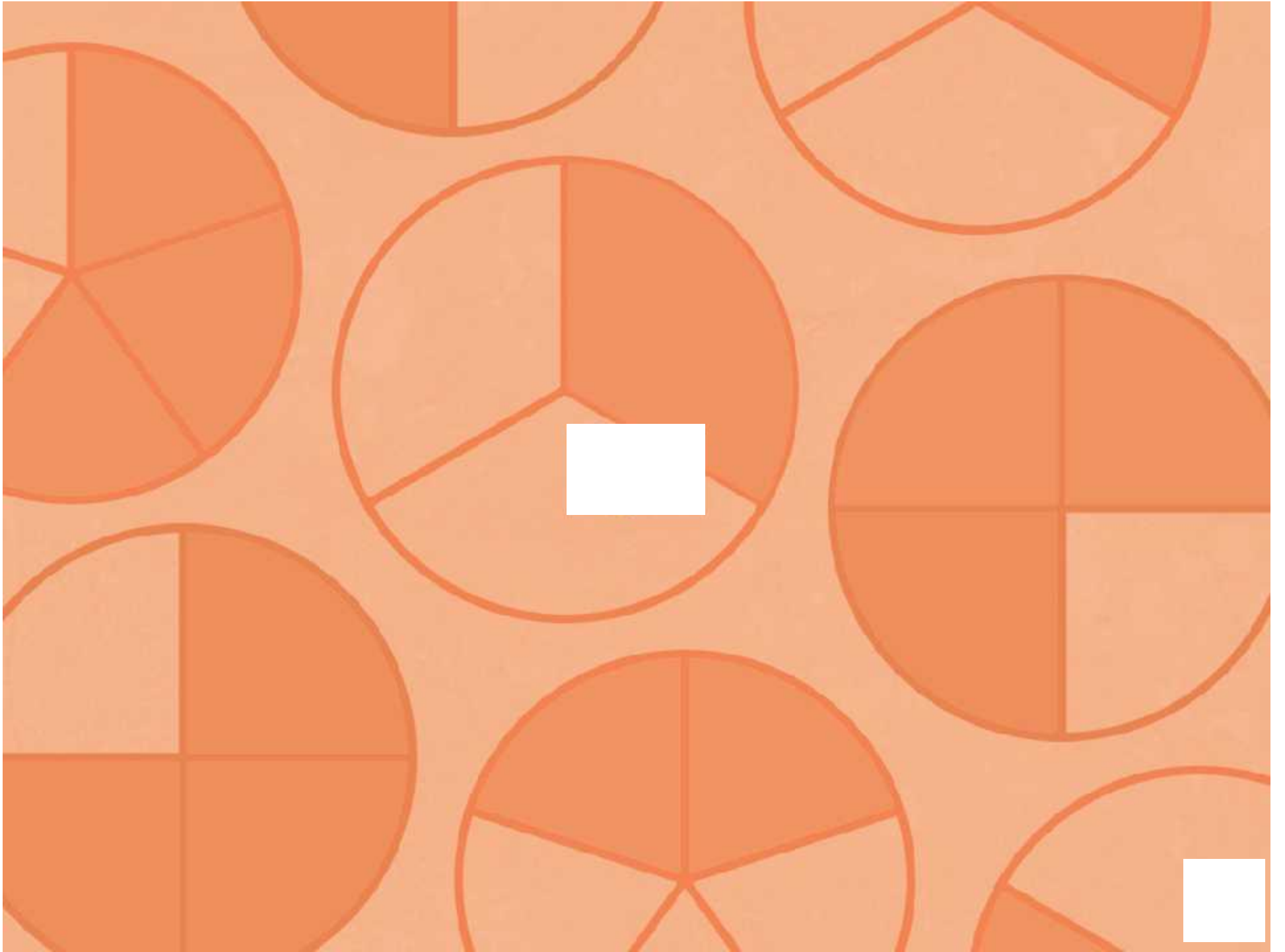
# Aim



- I can compare numbers with up to three decimal places.

# Success Criteria

- I can read and write numbers with up to three decimal places.
- I can compare the value of digits in the same place value position.
- I can use  $<$  and  $>$  to compare numbers.
- I can compare numbers with different numbers of decimal places.



Aim: I can compare numbers with up to three decimal places.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can read and write numbers with up to three decimal places.				Notes/Evidence					
I can compare the value of digits in the same place value position.									
I can use < and > to compare numbers.									
I can compare numbers with different numbers of decimal places.									
Next Steps									
) _____									
) _____									

<b>T</b>	Teacher	<b>I</b>	Independent
<b>PPA</b>	Planning, Preparation and Assessment	<b>AL</b>	Adult Led
<b>S</b>	Supply	<b>GP</b>	Guided Practice

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I can read and write numbers with up to three decimal places.				Notes/Evidence					
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) _____									

<b>T</b>	Teacher	<b>I</b>	Independent
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<b>S</b>	Supply	<b>GP</b>	Guided Practice

**0.3**

**0.34**

**0.38**

**0.4**

**0.43**

**0.48**

0.8

0.83

0.84

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3

3.04

3.08

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**3.4**

**3.48**

**3.8**

**3.84**

**4**

**4.03**

4.08

4.3

4.38

4.8

4.83

8



8.03

8.04

8.3

8.34

8.4

8.43



# Decimal Number Chains

I can compare numbers with up to three decimal places.



Complete the chains by putting the correct symbol between each pair of numbers.

<  
is less  
than

>  
is greater  
than



4.3		4.6		4.1		3.1		3.3		3.7		3.2		3.9
9.45		9.41		9.39		9.99		9.09		9.56		9.49		9.94
1.328		1.338		1.339		1.303		1.301		1.295		1.299		1.209
28.61		28.16		28.26		28.29		28.19		38.29		38.38		38.36
33.333		33.303		33.313		33.003		30.641		30.651		30.065		30.066

# Decimal Number Chains Answers

I can compare numbers with up to three decimal places.

Complete the chains by putting the correct symbol between each pair of numbers.

<  
is less  
than

>  
is greater  
than



4.3	<	4.6	>	4.1	>	3.1	<	3.3	<	3.7	>	3.2	<	3.9
9.45	>	9.41	>	9.39	<	9.99	>	9.09	<	9.56	>	9.49	<	9.94
1.328	<	1.338	<	1.339	>	1.303	>	1.301	>	1.295	<	1.299	>	1.209
28.61	>	28.16	<	28.26	<	28.29	>	28.19	<	38.29	<	38.38	>	38.36
33.333	>	33.303	<	33.313	>	33.003	<	30.641	<	30.651	>	30.065	<	30.066



# Decimal Number Chains

I can compare numbers with up to three decimal places.



Complete the chains by putting the correct 'greater than' or 'less than' symbol between each pair of numbers.

15.64		15.46		15.49		16.05		16.51		16.32		16.34		16.29
-------	--	-------	--	-------	--	-------	--	-------	--	-------	--	-------	--	-------

72.123		72.231		72.229		72.204		72.213		72.109		71.999		72.909
--------	--	--------	--	--------	--	--------	--	--------	--	--------	--	--------	--	--------

59.51		59.5		59.403		59.42		59.423		59.09		59.009		72.909
-------	--	------	--	--------	--	-------	--	--------	--	-------	--	--------	--	--------

67.059		67.053		67.1		67.103		67.134		67.13		67.03		67.3
--------	--	--------	--	------	--	--------	--	--------	--	-------	--	-------	--	------

Complete the chains by selecting numbers which will fit between the symbols.

20.76	>		>		<	20.832	<		>		>		<	20.5
-------	---	--	---	--	---	--------	---	--	---	--	---	--	---	------

88.08	<		>		<	88.8	>		<		>		>	88.7
-------	---	--	---	--	---	------	---	--	---	--	---	--	---	------



# Decimal Number Chains **Answers**

I can compare numbers with up to three decimal places.



Complete the chains by putting the correct 'greater than' or 'less than' symbol between each pair of numbers.

15.64	>	15.46	<	15.49	<	16.05	<	16.51	>	16.32	<	16.34	>	16.29
-------	---	-------	---	-------	---	-------	---	-------	---	-------	---	-------	---	-------

72.123	<	72.231	>	72.229	>	72.204	<	72.213	>	72.109	>	71.999	<	72.909
--------	---	--------	---	--------	---	--------	---	--------	---	--------	---	--------	---	--------

59.51	>	59.5	>	59.403	<	59.42	<	59.423	>	59.09	>	59.009	<	72.909
-------	---	------	---	--------	---	-------	---	--------	---	-------	---	--------	---	--------

67.059	>	67.053	<	67.1	<	67.103	<	67.134	>	67.13	>	67.03	<	67.3
--------	---	--------	---	------	---	--------	---	--------	---	-------	---	-------	---	------

Complete the chains by selecting numbers which will fit between the symbols.

*Multiple answers possible.*

20.76	>		>		<	20.832	<		>		>		<	20.5
-------	---	--	---	--	---	--------	---	--	---	--	---	--	---	------

88.08	<		>		<	88.8	>		<		>		>	88.7
-------	---	--	---	--	---	------	---	--	---	--	---	--	---	------



# Decimal Number Chains

I can compare numbers with up to three decimal places.



Complete the chains by putting the correct 'greater than' or 'less than' symbol between each pair of numbers.

11.735		11.73		11.8		11.064		11.069		11.69		11.6		11.534
--------	--	-------	--	------	--	--------	--	--------	--	-------	--	------	--	--------

83.8		83.764		83.77		83.707		83.79		83.081		83.196		83.2
------	--	--------	--	-------	--	--------	--	-------	--	--------	--	--------	--	------

20.01		20.99		20.906		20.084		20.8		20.902		19.999		19.905
-------	--	-------	--	--------	--	--------	--	------	--	--------	--	--------	--	--------

99.09		99.9		99.909		99.009		99.99		99.999		99.099		99.09
-------	--	------	--	--------	--	--------	--	-------	--	--------	--	--------	--	-------

Complete the chains by selecting numbers which will fit between the symbols.

77.76	>		>		<	77.7	<		>	77.75	>		<	
-------	---	--	---	--	---	------	---	--	---	-------	---	--	---	--

50.1	<		>	50.16	<		>	50.163	<		>		>	50.1
------	---	--	---	-------	---	--	---	--------	---	--	---	--	---	------



# Decimal Number Chains **Answers**

I can compare numbers with up to three decimal places.



Complete the chains by putting the correct 'greater than' or 'less than' symbol between each pair of numbers.

11.735	>	11.73	<	11.8	>	11.064	<	11.069	<	11.69	>	11.6	>	11.534
--------	---	-------	---	------	---	--------	---	--------	---	-------	---	------	---	--------

83.8	>	83.764	<	83.77	>	83.707	<	83.79	>	83.081	<	83.196	<	83.2
------	---	--------	---	-------	---	--------	---	-------	---	--------	---	--------	---	------

20.01	<	20.99	>	20.906	>	20.084	<	20.8	<	20.902	>	19.999	>	19.905
-------	---	-------	---	--------	---	--------	---	------	---	--------	---	--------	---	--------

99.09	<	99.9	<	99.909	>	99.009	<	99.99	<	99.999	>	99.099	>	99.09
-------	---	------	---	--------	---	--------	---	-------	---	--------	---	--------	---	-------

Complete the chains by selecting numbers which will fit between the symbols.

*Multiple answers possible.*

77.76	>		>		<	77.7	<		>	77.75	>		<	
-------	---	--	---	--	---	------	---	--	---	-------	---	--	---	--

50.1	<		>	50.16	<		>	50.163	<		>		>	50.1
------	---	--	---	-------	---	--	---	--------	---	--	---	--	---	------

Fractions | Comparing Decimals

I can compare numbers with up to three decimal places.		
I can read and write numbers with up to three decimal places.		
I can compare the value of digits in the same place value position.		
I can use < and > to compare numbers.		
I can compare numbers with different numbers of decimal places.		

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