



1) a) **0.6** 0.4

b) 0.14 **0.16**

c) **0.458** 0.453

3) a) >  
b) <  
c) <  
d) >  
e) <

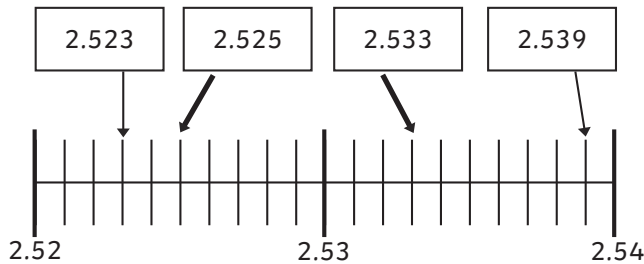
2) a) 0.231  
b) 0.143  
c) 0.231

4) a) 0.103, 0.123, 0.231, 0.312  
b) 1.542, 1.452, 1.254, 1.245

1) Joseph is incorrect. He is not thinking about the value of the digit in the place value column after the decimal point with the greatest value, which is the tenths column.

2.369 has three-tenths but 2.415 has four-tenths. Therefore, 2.415 is the greater number regardless of the digits in the hundredths and thousandths columns.

2) Elias has correctly placed arrow to show the positions of 2.523 and 2.539 on the number line. However, he has placed 2.525 where 2.526 would be and 2.533 where 2.532 would be. The correct positions are:



3) Drew has ordered 0.312 and 0.321 incorrectly. 0.321 is the greatest number so this should be placed last (after 0.312). The correct order should be: 0.123, 0.132, 0.231, 0.312, 0.321

Elena has ordered 3.625 incorrectly. 3.625 is less than 3.631 and 3.628 so should come after both of these numbers. The correct order should be: 3.639, 3.631, 3.628, 3.625, 3.624



1) There are many possible answers. For example:

1.152, 1.134, 1.107, 1.062, 1.053

2) There are many possible answers. For example:

2.125 < 2.233

2.215 < 2.233

2.225 < 2.331

2.235 < 2.321

2.315 < 2.322

3) There are many possible answers. For example:

a) 0.001, 0.024, 0.038, 0.156, 0.367

b) 0.167, 0.165, 0.034, 0.032, 0.008



## Order and Compare Decimals (Same Number of Decimal Places)



1) Draw a circle around the greater number in each pair.

a) 0.6    0.4                      b) 0.14    0.16                      c) 0.458    0.453

2) Write the number represented in each place value chart.

a)

Ones	tenths	hundredths	thousandths
	0.1    0.1	0.01    0.01 0.01	0.001

b)

Ones	tenths	hundredths	thousandths
	0.1	0.01    0.01 0.01    0.01	0.001    0.001

c) Which is the greater number?

3) Write < or > to compare the numbers.

a) 0.864 ○ 0.759                      b) 0.236 ○ 0.263                      c) 0.072 ○ 0.202

d) 1.532 ○ 1.523                      e) 2.024 ○ 2.089

4)

a) Write the decimals in ascending order.

0.123	0.231	0.103	0.312
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

b) Write the decimals in ascending order.

1.452	1.245	1.254	1.542
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## Order and Compare Decimals (Same Number of Decimal Places)



1) Joseph is comparing these two numbers. Is he correct? Explain why.

2.369

2.415



Joseph

2.369 is greater than 2.415 because the digits 6 and 9 are greater than the digits 1 and 5.

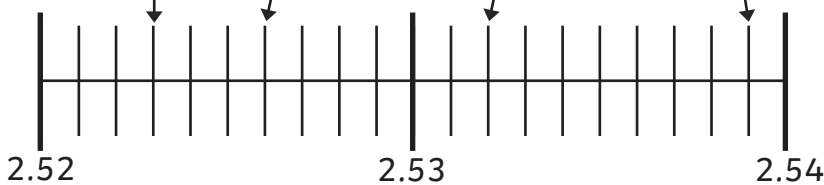
---

---

---

2) Elias has drawn arrows to show where the numbers should be placed on the number line. Do you agree with him? Explain your reasoning.

2.523    2.525    2.533    2.539



---

---

---

---

3) Drew and Elena have ordered some numbers with 3 decimal places. Can you spot their mistakes? Then, write the numbers in the correct order.



Drew

My decimals are in ascending order.

0.123, 0.132, 0.231, 0.321, 0.312

My decimals are in descending order.

3.639, 3.625, 3.631, 3.628, 3.624



Elena

---

---

---

## Order and Compare Decimals (Same Number of Decimal Places)



1) Drew has made a number with 3 decimal places between 1.049 and 1.163 on this place value chart using 9 counters.



Ones	tenths	hundredths	thousandths
•			

Find five different possibilities.

2) Use each digit card only once to complete this number statement.

1

2

2

3

3

2

•

5

<

2

•

Find five different possibilities of what their number could be.

3) These decimal numbers are in ascending order. Use the digits 0-8 to fill in the empty spaces and make the order correct. You can only use each digit once.

a) 0.\_0\_ 0.0\_ \_ 0.03\_ 0.1\_ \_ 0.\_6\_

b) Now, use the digits 0-8 to fill in the empty spaces so that the decimals are in descending order. You can only use each digit once.

b) 0.\_6\_ 0.1\_ \_ 0.03\_ 0.0\_ \_ 0.\_0\_

## Diving into Mastery

0.001

0.01

0.1

0.001

0.01

0.1

0.001

0.1

0.001

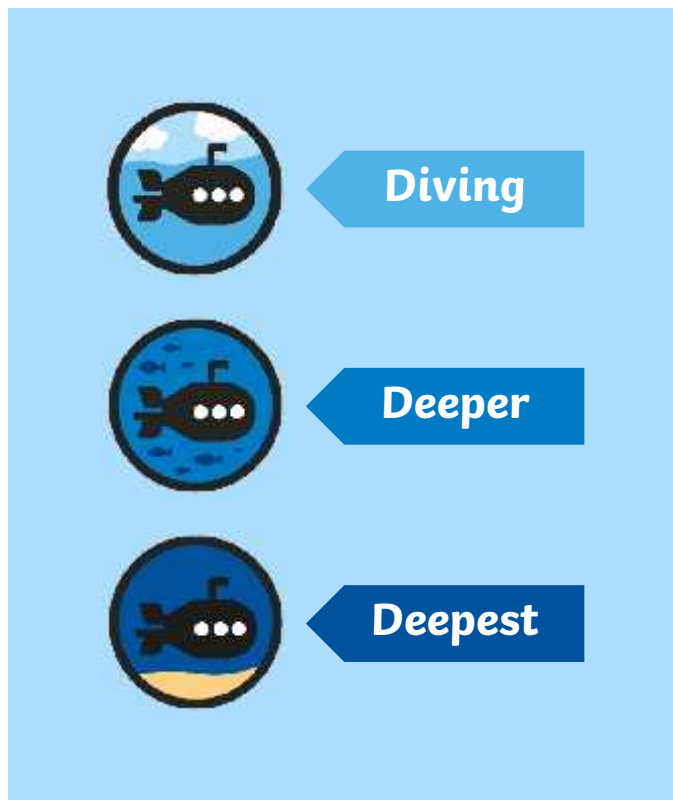
0.01



Order and Compare Decimals  
(Same Number of  
Decimal Places)

# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

# National Curriculum Aim

- Read, write, order and compare numbers with up to 3 decimal places

# Order and Compare Decimals (Same Number of Decimal Places)

Diving



Write the number represented in the place value chart.

Ones	tenths	hundredths	thousandths
	● 0.1 0.1	● 0.01	● 0.001 ● 0.001 ● 0.001 ● 0.001

Ones	tenths	hundredths	thousandths
	● 0.1 0.1 ● 0.1	● 0.01 0.01	● 0.001

Which is the greater number?



## Order and Compare Decimals (Same Number of Decimal Places)

Diving



Write  $<$  or  $>$  to compare the numbers.

0.763  0.971

0.472  0.427

0.056  0.065

2.834  2.384

4.031  4.003

7.203  7.023

## Order and Compare Decimals (Same Number of Decimal Places)

Deeper



Joseph is comparing these two numbers.  
Is he correct? Explain why.



Joseph

1.177 is greater than 1.211 because the digits 7 and 7 are greater than the digits 1 and 1.

1.177

1.211

## Order and Compare Decimals (Same Number of Decimal Places)

Deeper



Drew and Elena have ordered some numbers with 3 decimal places. Can you spot their mistakes? Then, write the decimals in the correct order.



Drew

My decimals are in ascending order.  
0.234, 0.324, 0.342, 0.432, 0.423

My decimals are in descending order.  
2.458, 2.452, 2.446, 2.449, 2.443



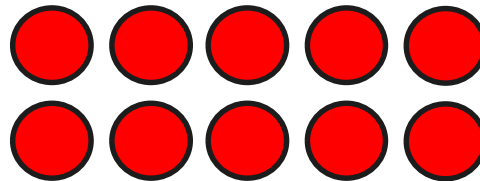
Elena

## Order and Compare Decimals (Same Number of Decimal Places)

Deepest



Drew has made a number with 3 decimal places between 1.057 and 1.143 on this place value chart using 10 counters.

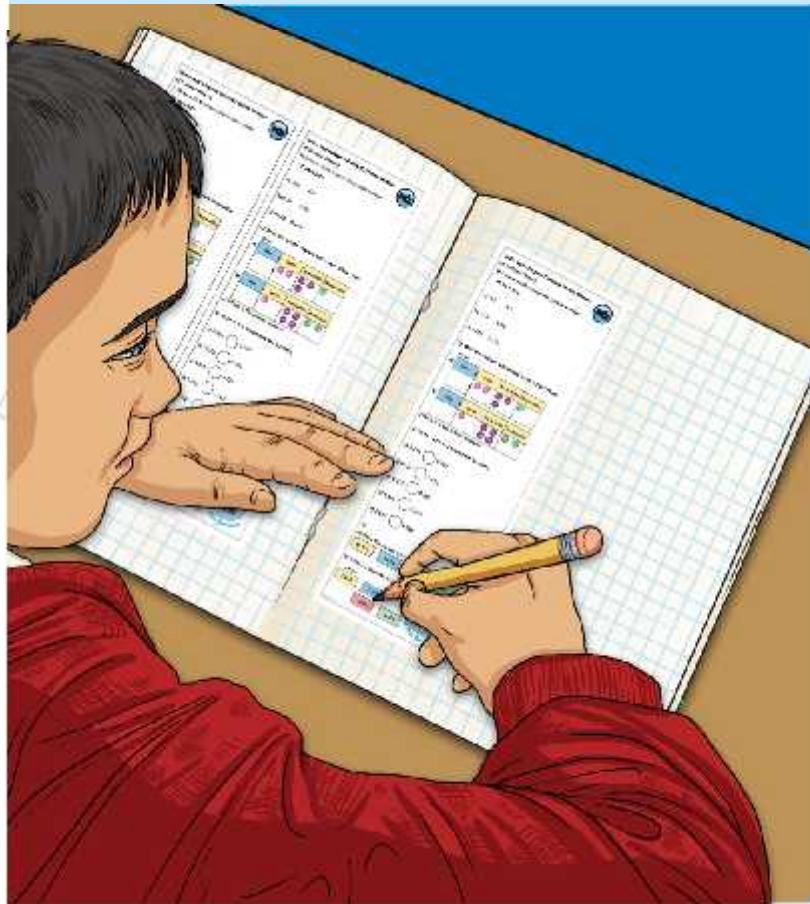


Ones	tenths	hundredths	thousandths

Find five different possibilities of what their number could be.

## Order and Compare Decimals (Same Number of Decimal Places)

Dive in by completing your own activity!



**Order and Compare Decimals**

1) Draw a circle around the greater number in each pair.

a) 0.6    0.9    b) 0.1

2) Write the number representation for each place value chart.

a) 

Tens	ones	tenths
	2	3

b) 

Tens	ones	tenths
	1	4

3) Write the greater number.

3) Write > or < to compare the numbers.

a) 0.86 < 0.75    b)

d) 1.43 < 1.43    e)

4) Write the decimals in ascending order.

0.127	0.311
<input type="text"/>	<input type="text"/>

b) Write the decimals in ascending order.

0.127	1.265
<input type="text"/>	<input type="text"/>

**Order and Compare Decimals (Same Number of Decimal Places)**

1) Draw a circle around the greater number in each pair.

a) 0.6    0.9    b) 0.15    0.15    c) 0.15    0.15

2) Write the number representation for each place value chart.

a) 

Tens	ones	tenths	hundredths
	2	3	4

b) 

Tens	ones	tenths	hundredths
	1	4	3

3) Write the greater number.

3) Write > or < to compare the numbers.

a) 0.86 < 0.75    b) 0.75 < 0.75    c) 0.75 < 0.75

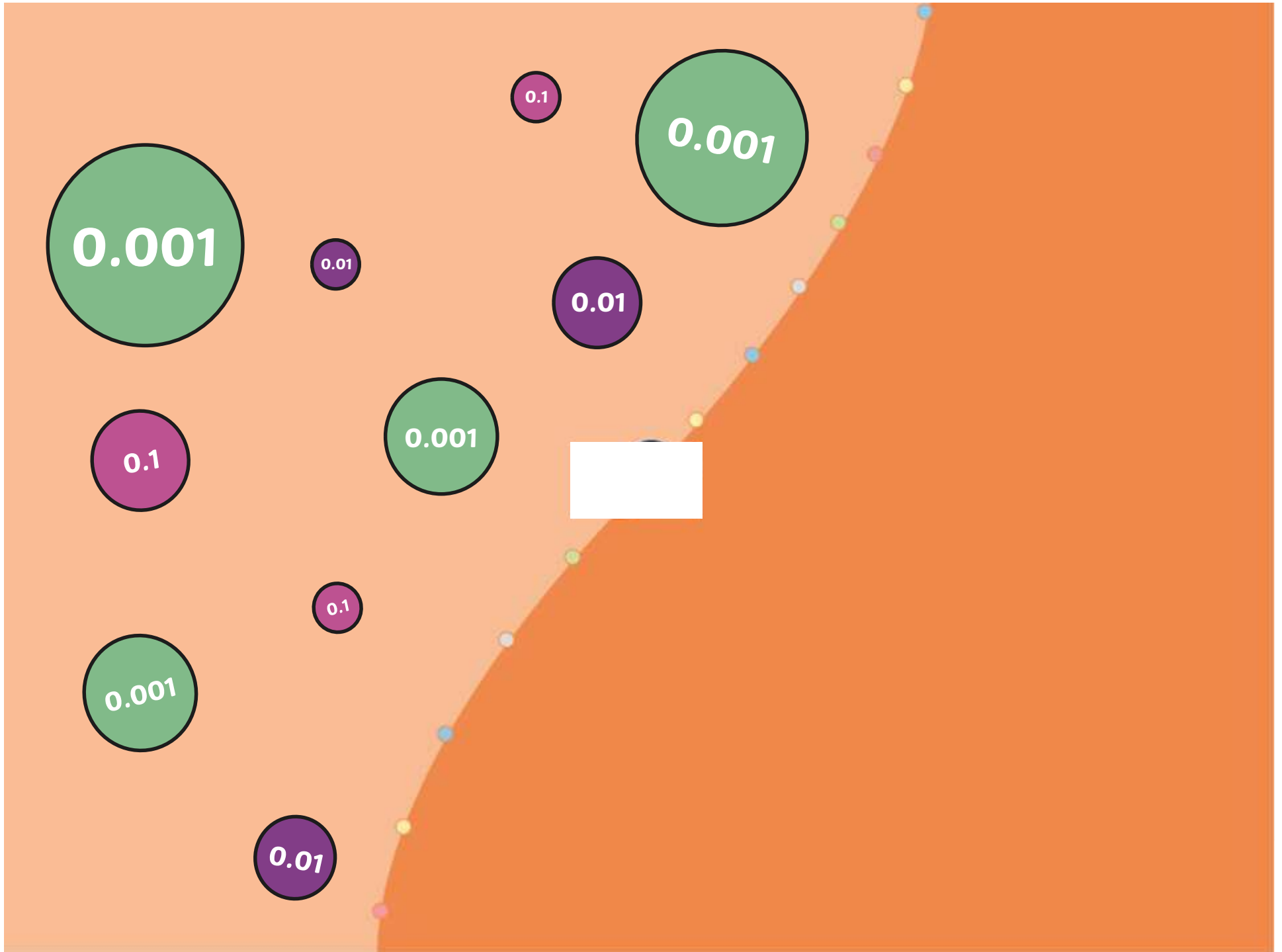
d) 1.43 < 1.43    e) 0.87 < 0.87

4) Write the decimals in ascending order.

0.127	0.311	0.87	0.317
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

b) Write the decimals in ascending order.

0.127	1.265	1.26	1.127
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



## Order and Compare Decimals (Same Number of Decimal Places)



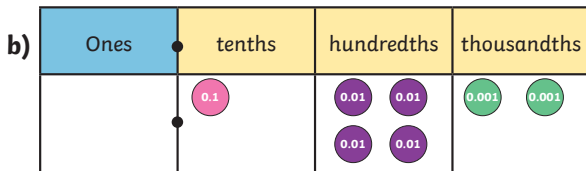
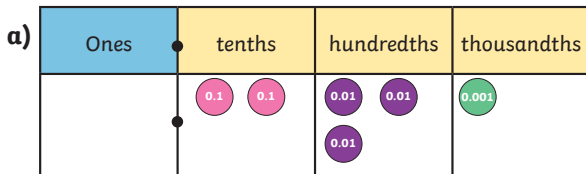
1) Draw a circle around the greater number in each pair.

a) 0.6    0.4

b) 0.14    0.16

c) 0.458    0.453

2) Write the number represented in each place value chart.



c) Which is the greater number?

3) Write < or > to compare the numbers.

a) 0.864 ○ 0.759

b) 0.236 ○ 0.263

c) 0.072 ○ 0.202

d) 1.532 ○ 1.523

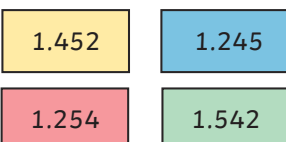
e) 2.024 ○ 2.089

4)

a) Write the decimals in ascending order.



b) Write the decimals in descending order.



## Order and Compare Decimals (Same Number of Decimal Places)



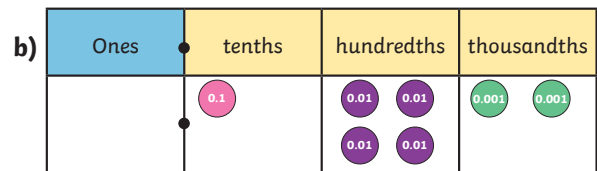
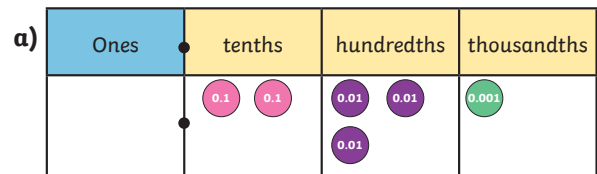
1) Draw a circle around the greater number in each pair.

a) 0.6    0.4

b) 0.14    0.16

c) 0.458    0.453

2) Write the number represented in each place value chart.



c) Which is the greater number?

3) Write < or > to compare the numbers.

a) 0.864 ○ 0.759

b) 0.236 ○ 0.263

c) 0.072 ○ 0.202

d) 1.532 ○ 1.523

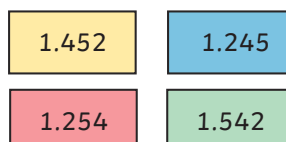
e) 2.024 ○ 2.089

4)

a) Write the decimals in ascending order.



b) Write the decimals in descending order.



## Order and Compare Decimals (Same Number of Decimal Places)



1) Joseph is comparing these two numbers.

Is he correct? Explain why.

2.369

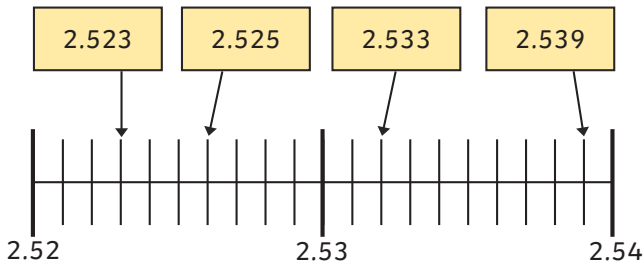
2.415



Joseph

2.369 is greater than 2.415 because the digits 6 and 9 are greater than the digits 1 and 5.

2) Elias has drawn arrows to show where the numbers should be placed on the number line. Do you agree with him? Explain your reasoning.



3) Drew and Elena have ordered some numbers with 3 decimal places. Can you spot their mistakes? Then, write the numbers in the correct order.



Drew

My decimals are in ascending order.

0.123, 0.132, 0.231, 0.321, 0.312

My decimals are in descending order.

3.639, 3.625, 3.631, 3.628, 3.624



Elena

## Order and Compare Decimals (Same Number of Decimal Places)



1) Joseph is comparing these two numbers.

Is he correct? Explain why.

2.369

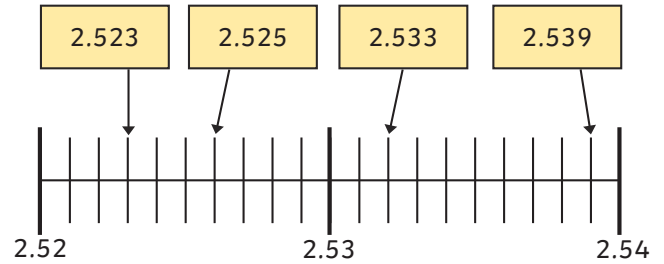
2.415



Joseph

2.369 is greater than 2.415 because the digits 6 and 9 are greater than the digits 1 and 5.

2) Elias has drawn arrows to show where the numbers should be placed on the number line. Do you agree with him? Explain your reasoning.



3) Drew and Elena have ordered some numbers with 3 decimal places. Can you spot their mistakes? Then, write the numbers in the correct order.



Drew

My decimals are in ascending order.

0.123, 0.132, 0.231, 0.321, 0.312

My decimals are in descending order.

3.639, 3.625, 3.631, 3.628, 3.624



Elena



### Order and Compare Decimals (Same Number of Decimal Places)



1) Drew has made a number with 3 decimal places between 1.049 and 1.163 on this place value chart using 9 counters.



Ones	tenths	hundredths	thousandths

Find five different possibilities of what their number could be.

2) Use each digit card only once to complete this number statement.



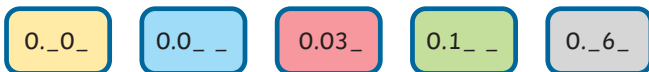
$$2.\square\square5 < 2.\square\square\square$$

Find five different possibilities.

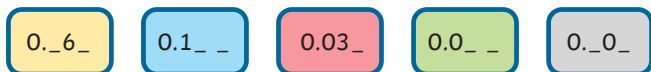
3) These decimal numbers are in ascending order. Use the digits 0-8 to fill in the empty spaces and make the order correct.

You can only use each digit once.

a)



b) Now, use the digits 0-8 to fill in the empty spaces so that the decimals are in descending order. You can only use each digit once.



### Order and Compare Decimals (Same Number of Decimal Places)



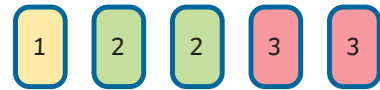
1) Drew has made a number with 3 decimal places between 1.049 and 1.163 on this place value chart using 9 counters.



Ones	tenths	hundredths	thousandths

Find five different possibilities of what their number could be.

2) Use each digit card only once to complete this number statement.



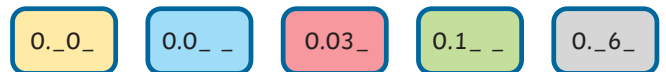
$$2.\square\square5 < 2.\square\square\square$$

Find five different possibilities.

3) These decimal numbers are in ascending order. Use the digits 0-8 to fill in the empty spaces and make the order correct.

You can only use each digit once.

a)



b) Now, use the digits 0-8 to fill in the empty spaces so that the decimals are in descending order. You can only use each digit once.

