

Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line

# Ordering Decimals



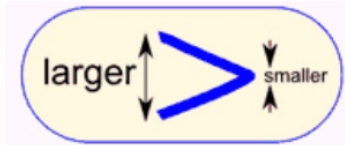
less than



greater than



equals



Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

Examples:

$$\frac{4}{10} = 0.4$$

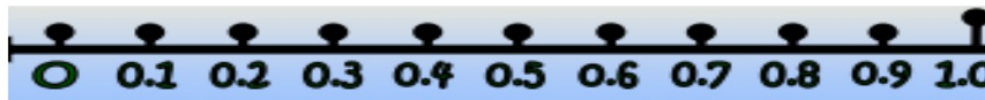
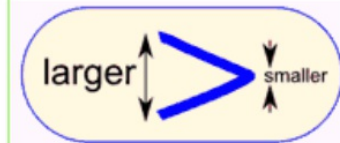
$$0.6 > 0.4$$

$$0.1 < 0.9$$

<  
less than

>  
greater than

=  
equals



Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

What symbol would go in the gap?

0.7 ? 0.5

0.70 ? 0.08

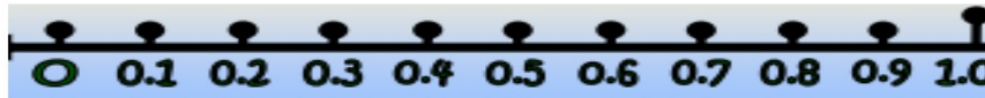
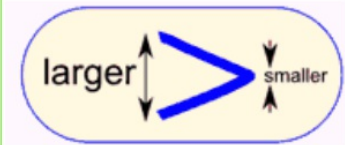
6.119 ? 6.19

0.117 ? 1.17

$<$   
less than

$>$   
greater than

$=$   
equals



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# Ordering Decimals

What symbol would go in the gap?

$$0.7 > 0.5$$

$$0.70 > 0.08$$

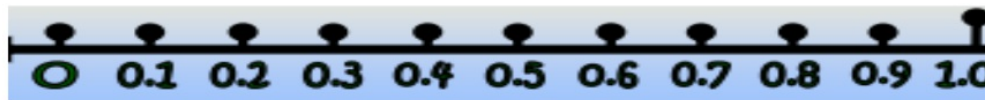
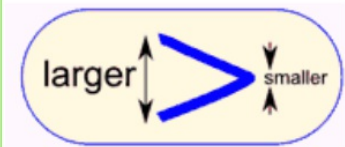
$$6.119 < 6.19$$

$$0.117 < 1.17$$

$<$   
less than

$>$   
greater than

$=$   
equals





Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

What symbol would go in the gap?

$$1.5 \quad \boxed{?} \quad 1\frac{1}{2}$$

$$2.56 \quad \boxed{?} \quad 2.65$$

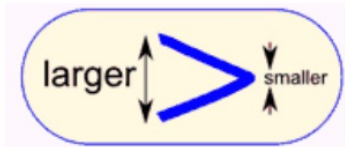
$$£7.50 \quad \boxed{?} \quad £7.5$$

$$6.606 \quad \boxed{?} \quad 6.660$$

$<$   
less than

$>$   
greater than

$=$   
equals



Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

What symbol would go in the gap?

$$1.5 = 1\frac{1}{2}$$

$$2.56 < 2.65$$

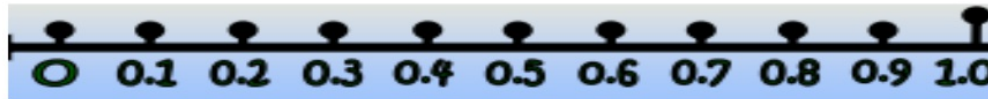
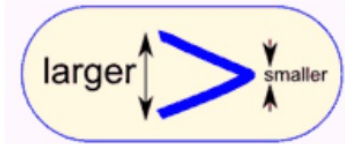
$$£7.50 = £7.5$$

$$6.606 < 6.660$$

<  
less than

>  
greater than

=  
equals



Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

Putting decimals in order:

Example:

Order these decimals: (smallest first)

5.62    6.52    5.26    6.5    6.25

Step 1:

Write in a column:

U .	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

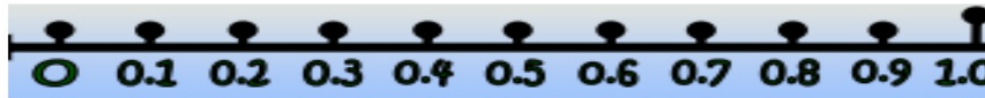
Step 2:

Put them in order:

U .	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

Step 3:

Write the list again  
in order:





Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

Putting decimals in order:

Order these decimals: (smallest first)

1) 1.45    1.97    2.36    1.74    2.44

2) 3.18    1.8    3.81    3.8    1.38

3) 4.2    4.25    0.45    4.5    4.52

4) 1.414    1.44    1.114    1.4    1.411

Step 1:  
Write in a column:

1	1	1
10	100	1000
U.		

Step 2:  
Put them in order:

Step 3:  
Write the list again  
in order:





Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

Putting decimals in order:

Order these decimals: (smallest first)

1) 1.45    1.97    2.36    1.74    2.44

Answer: 1.45    1.74    1.97    2.36    2.44

2) 3.18    1.8    3.81    3.8    1.38

Answer: 1.38    1.8    3.18    3.8    3.81

3) 4.2    4.25    0.45    4.5    4.52

Answer: 0.45    4.2    4.25    4.5    4.52

4) 1.414    1.44    1.114    1.4    1.411

Answer: 1.114    1.4    1.411    1.414    1.44

Step 1:  
Write in a column:

1	1	1
U . 10	100	1000

Step 2:  
Put them in order:

Step 3:  
Write the list again  
in order:



Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

Finding the half way point

What is half way between 2.9 and 2.5?

Step 1:  
Find the difference

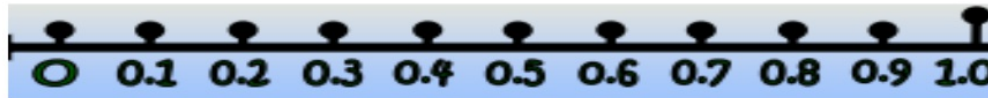
$$\begin{array}{r} 2.9 \\ - 2.5 \\ \hline 0.4 \end{array}$$

Step 2:  
Divide by 2

$$0.4 \div 2 = 0.2$$

Step 3:  
Add to the first number

$$2.5 + 0.2 = \underline{2.7}$$



Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals

Finding the half way point

1) What is half way between 9 and 10?

2) What is half way between 3 and 6?

3) What is half way between 2 and 2.8?

4) What is half way between 6 and 6.5?

Step 1:  
Find the difference

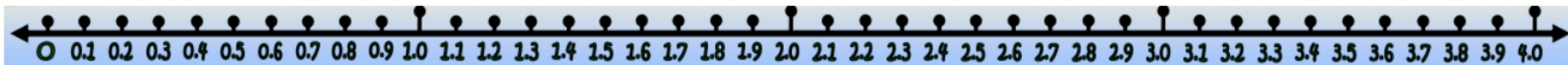
Step 2:  
Divide by 2

Step 3:  
Add to the first number

$$\begin{array}{r} 2.9 \\ - 2.5 \\ \hline 0.4 \end{array}$$

$$0.4 \div 2 = 0.2$$

$$2.5 + 0.2 = \underline{2.7}$$





Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals



> or < ?

- 1) 5.3 \_\_\_ 3.5
- 2) 4.0 \_\_\_ 2.4
- 3) 6.8 \_\_\_ 8.6

Order the decimals

- 4) 3.18, 1.8, 3.81, 3.8
- 5) 6.76, 6.6, 6.06, 6.7
- 6) 21.8, 2.8, 2.18, 28

Find the half way point

- 7) 9 and 10
- 8) 2.2 and 2.6
- 9) 3.1 and 3.2
- 10) 1.4 and 1.8

> or < ?

- 1) 2.58 \_\_\_ 5.2
- 2) 4.57 \_\_\_ 4.75
- 3) 9.87 \_\_\_ 8.97

Order the decimals

- 4) 8.47, 0.847, 84.7, 8.247
- 5) 3.2, 0.307, 2.07, 0.37
- 6) 2.2, 22.2, 2.222, 2.22

Find the half way point

- 7) 4 and 5
- 8) 3 and 6
- 9) 3.6 and 4.0
- 10) 6.0 and 6.5

Order the decimals

- 1) 4.2, 4.25, 4.52, 0.45, 4.5
- 2) 1.717, 1.7, 1.117, 1.17
- 3) 4.66, 4.565, 5.644, 5.446

Find the half way point

- 4) 0.916 and 0.93
- 5) 2 and 2.25
- 6) 4.63 and 4.7
- 7) 0.25 and 0.2

Complete:

- 8)  $0.258 + \underline{\quad} = 0.264$
- 9)  $5.436 + \underline{\quad} = 6.136$
- 10)  $4.352 - \underline{\quad} = 4.272$
- 11)  $8.197 - \underline{\quad} = 6.897$
- 12)  $10.1 - \underline{\quad} = 9.998$





Use decimal notation for tenths, hundredths and thousandths; partition, round and order decimals with up to three places, and position them on the number line



# Ordering Decimals



## Answers

> or < ?

- 1) 5.3 > 3.5
- 2) 4.0 > 2.4
- 3) 6.8 < 8.6

Order the decimals

- 4) 1.8, 3.18, 3.8, 3.81
- 5) 6.06, 6.6, 6.7, 6.76
- 6) 2.18, 2.8, 21.8, 28

Find the half way point

- 7) 9 and 10     9.5
- 8) 2.2 and 2.6     2.4
- 9) 3.1 and 3.2     3.15
- 10) 1.4 and 1.8     1.6

> or < ?

- 1) 2.58 < 5.2
- 2) 4.57 < 4.75
- 3) 9.87 > 8.97

Order the decimals

- 4) 0.847, 8.247, 8.47, 84.7
- 5) 0.307, 0.37, 2.07, 3.2
- 6) 2.2, 2.22, 2.222, 22.2

Find the half way point

- 7) 4 and 5     4.5
- 8) 3 and 6     4.5
- 9) 3.6 and 4.0     3.8
- 10) 6.0 and 6.5     6.25

Order the decimals

- 1) 0.45, 4.2, 4.25, 4.5, 4.52
- 2) 1.117, 1.17, 1.7, 1.717
- 3) 4.565, 4.66, 5.446, 5.644

Find the half way point

- 4) 0.916 and 0.93     0.923
- 5) 2 and 2.25     2.125
- 6) 4.63 and 4.7     4.665
- 7) 0.25 and 0.2     0.275

Complete:

- 8)  $0.258 + \underline{0.006} = 0.264$
- 9)  $5.436 + \underline{0.7} = 6.136$
- 10)  $4.352 - \underline{0.08} = 4.272$
- 11)  $8.197 - \underline{1.3} = 6.897$
- 12)  $10.1 - \underline{0.102} = 9.998$



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# Ordering Decimals

Plenary:

Write these numbers in order of size, starting with the smallest.

1.01	1.001	1.101	0.11
<input style="width: 60px; height: 40px;" type="text"/>	<input style="width: 60px; height: 40px;" type="text"/>	<input style="width: 60px; height: 40px;" type="text"/>	<input style="width: 60px; height: 40px;" type="text"/>
smallest			

---

Circle the two decimals which are closest in value to each other.

0.9      0.09      0.99      0.1      0.01

