Order decimals

1 Here are four numbers on place value charts.

a) What number is represented in each place value chart?

A

Ones	Tenths	Hundredths
1 1 1	0.1	0.01 0.01 0.01 0.01

B

Ones	Tenths	Hundredths
1 1 1 1	0.1	0.01 0.01 0.01 0.01

C

Ones	Tenths	Hundredths
1 1 1	0.1	0.01 0.01 0.01 0.01 0.01

D

Ones	Tenths	Hundredths
1 1 1	0.1 0.1	0.01 0.01 0.01

b) Write the numbers in ascending order.

smallest greatest

2 **a)** Write digits to show the number represented in each place value chart.

O	Tths	Hths
1	0.1 0.1 0.1 0.1	0.01 0.01

O	Tths	Hths
1 1		0.01 0.01 0.01 0.01 0.01 0.01

O	Tths	Hths
1 1	0.1 0.1 0.1	

O	Tths	Hths
1	0.1 0.1 0.1	0.01 0.01 0.01

b) Write the numbers in ascending order.

3 Write the numbers in descending order.

1.42 **4.12** **1.24** **2.41**

4 Teddy's teacher asks him to put some numbers in ascending order.

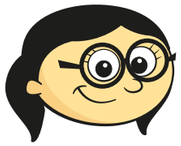
Here is his answer.

0.64 12.7 2.83

Do you agree with Teddy? _____

Talk about it with a partner.

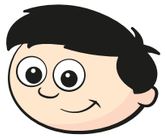
5 Annie and Dexter are comparing the decimals 4.12 and 4.8



Annie

4.12 is greater than 4.8, because 12 is bigger than 8

4.12 is smaller than 4.8, because 12 hundredths is less than 8 tenths.



Dexter

Who do you agree with? _____

Explain your answer.

6 Write < or > to complete the statements.

Decide whether the numbers are ascending or descending in each part.

a) 3.2 ◯ 3.8 ◯ 3.9 _____

b) 0.41 ◯ 0.38 ◯ 0.25 _____

c) 4.2 ◯ 4.17 ◯ 4.085 _____

7 Write the numbers in ascending order.

a) 2.38 0.97 1.45 1.81

_____

b) 0.64 0.7 0.09 0.46

_____

c) 12.3 2 7.83 0.99

_____

8 Tommy, Ron, Amir, Dora and Eva have measured their heights.

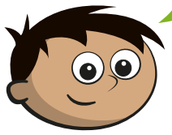
My height is 145 cm.

Tommy

I am 1.4 m tall.

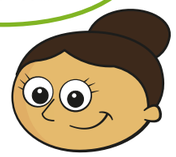
Ron

I am 10 cm taller than Ron.

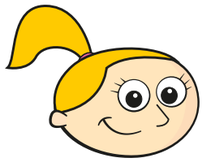


Amir

My height is 1.38 m.



Dora



Eva

I am 146 cm tall.

Write the children's names in order from shortest to tallest.

_____

9 Here are two lists of numbers.

Use the digits 0 to 9 once each to complete the lists.

ascending order	__.4__	__.41	7.__9	__.41
descending order	__.41	7.__9	__.41	__.4__

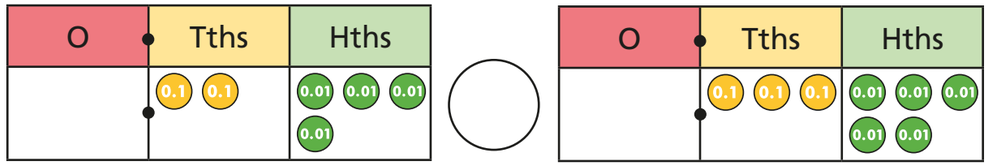
Compare answers with a partner.

Is there more than one way to complete each list?

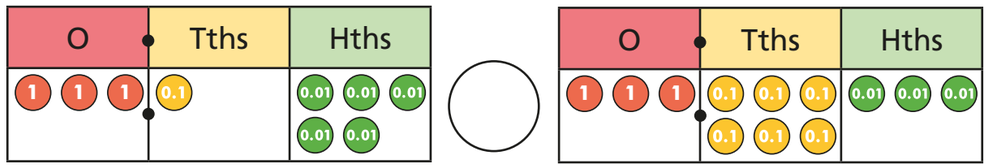
Compare decimals

1 Write < or > to compare the decimals.

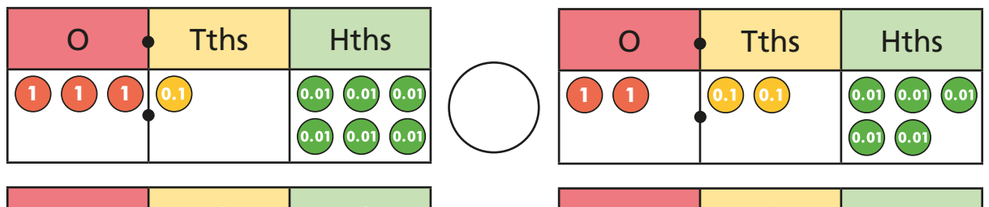
a)



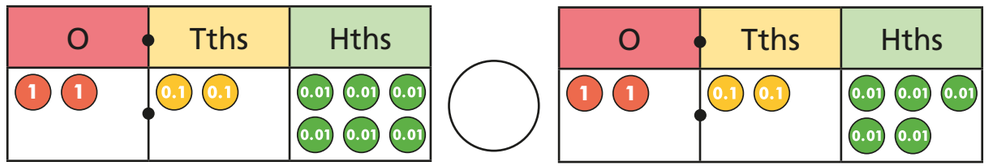
b)



c)



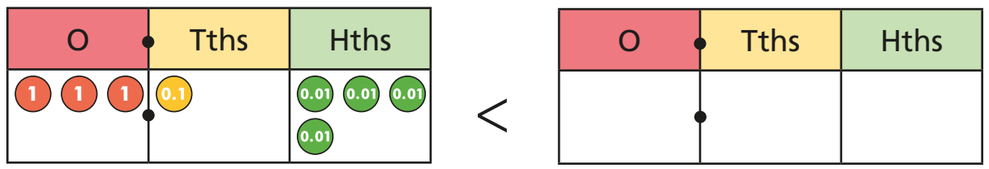
d)



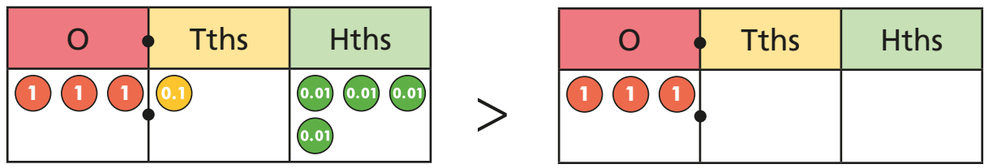
Did you have to compare all the columns for every question?

2 Draw counters to make the statements correct.

a)



b)



3 Write < or > to compare the decimals.

a)

O	Tths	Hths		O	Tths	Hths
7	6	8	◯	7	0	2

b)

O	Tths	Hths		O	Tths	Hths
3	2	5	◯	3	9	6

c)

O	Tths	Hths		O	Tths	Hths
0	4	1	◯	0	2	9

d)

O	Tths	Hths		O	Tths	Hths
1	0	3	◯	1	2	0

e)

O	Tths	Hths		O	Tths	Hths
2	7	2	◯	2	7	1

4 Complete the place value charts to make the statements correct.

a)

O	Tths	Hths		O	Tths	Hths
6	2	8	<			

b)

O	Tths	Hths		O	Tths	Hths
3	2	6	>	3		

c)

O	Tths	Hths		O	Tths	Hths
9	9	8	<			

d)

O	Tths	Hths		O	Tths	Hths
1	4	6	>		8	

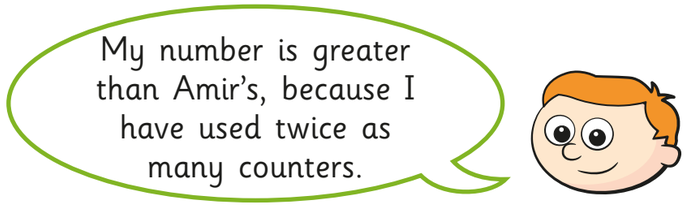
5 Ron and Amir have each made a number using counters on a place value chart.

Ron's looks like this:

Ones	Tenths	Hundredths
	●●●●	●●

Amir's looks like this:

Ones	Tenths	Hundredths
●●●		



Do you agree with Ron? _____

Explain your reasoning.

6 Draw exactly 8 counters in each chart to represent a number that matches each statement.

a) a number less than 0.76

Ones	Tenths	Hundredths

b) a number more than 5.74

Ones	Tenths	Hundredths

c) a number between 5.13 and 5.29

Ones	Tenths	Hundredths

How many different answers are there for each statement?

7 Write < or > to compare the numbers.

a) 3.2 ◯ 3.8

b) 1.46 ◯ 1.43

c) 1 ◯ 0.99

d) 0.16 ◯ 0.8

8 Fill in the missing digits to make the statements correct.

a) 0.34 < 0.3__

b) 2.42 > 2.4__

c) 0.74 < 0.__2

d) 1.3__ < 1.3__

e) 2.__2 > 2.__2

f) 0.8__ < 0.__9

Is there more than one answer for each?

9 Here are four digit cards.

7	0	3	1

Use each digit card once to make this statement correct.

□.□ > □.□

How many possible answers are there?