

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
1	4	2

3.14

B

Ones	Tenths	Hundredths
1 1 1 1	0.1	0.01 0.01 0.01 0.01
4	4	

4.14

C

Ones	Tenths	Hundredths
1 1 1	0.1	0.01 0.01 0.01 0.01 0.01
3	5	

3.15

D

Ones	Tenths	Hundredths
1 1 1	0.1 0.1	0.01 0.01 0.01
3	2	3

3.23

b) Write the numbers in ascending order.

3.14, 3.15, 3.23, 4.14

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
1	4	2

O	Tths	Hths
1 1		0.01 0.01 0.01 0.01 0.01 0.01
2	0	6

O	Tths	Hths
1 1	0.1 0.1 0.1	
2	3	

O	Tths	Hths
1	0.1 0.1 0.1	0.01 0.01 0.01
1	3	3

b) Write the numbers in ascending order.

1.33, 1.42, 2.06, 2.3

3 Write the numbers in descending order.

1.42	4.12	1.24	2.41
------	------	------	------

4.12, 2.41, 1.42, 1.24

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

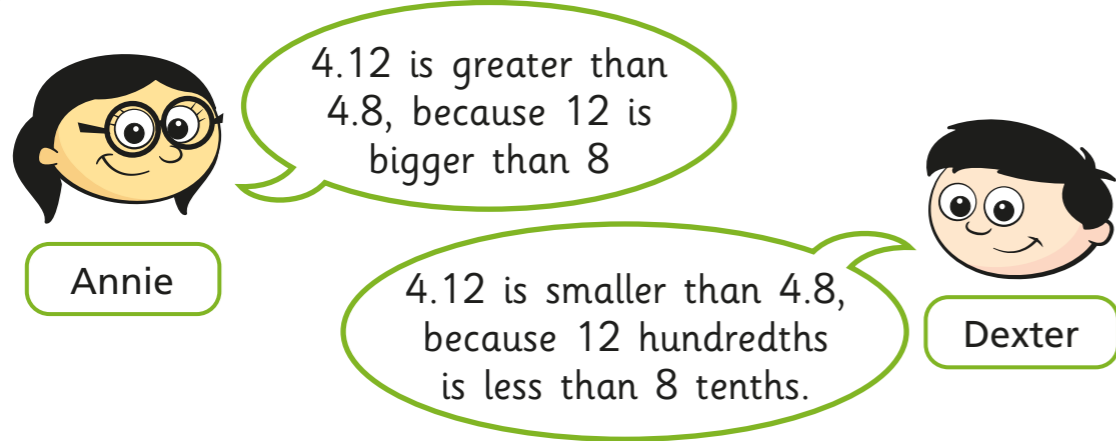
Here is his answer.

0.64	12.7	2.83
------	------	------

Do you agree with Teddy? No

Talk about it with a partner.

- 5 Annie and Dexter are comparing the decimals 4.12 and 4.8



Who do you agree with? Dexter

Explain your answer.

- 6 Write $<$ or $>$ to complete the statements.

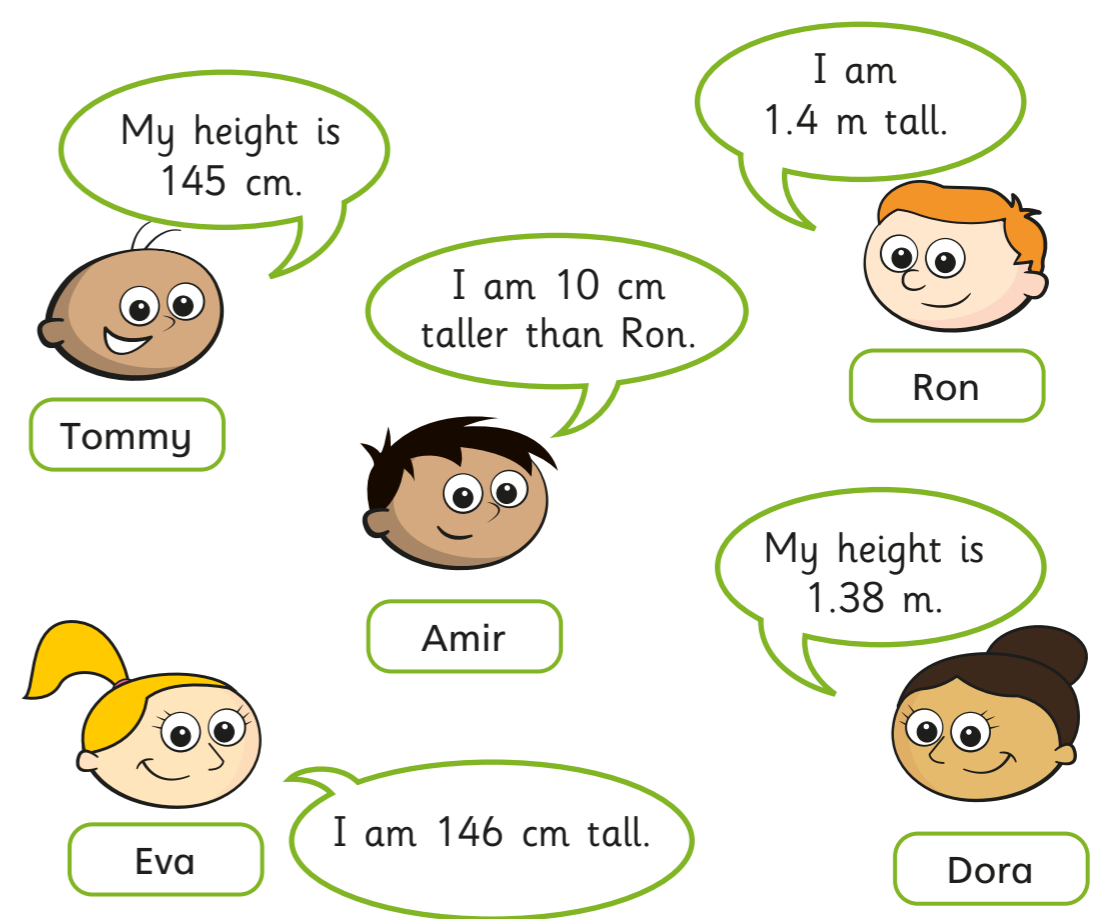
Decide whether the numbers are ascending or descending in each part.

- a) 3.2 $<$ 3.8 $<$ 3.9 ascending
- b) 0.41 $>$ 0.38 $>$ 0.25 descending
- c) 4.2 $>$ 4.17 $>$ 4.085 descending

- 7 Write the numbers in ascending order.

- a) 2.38 0.97 1.45 1.81
0.97, 1.45, 1.81, 2.38
- b) 0.64 0.7 0.09 0.46
0.09, 0.46, 0.64, 0.7
- c) 12.3 2 7.83 0.99
0.99, 2, 7.83, 12.3

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



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

Dora, Ron, Tommy, Eva, Amir

- 9 Here are two lists of numbers.

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

- ascending order 0.41 2.41 7.39 9.41
- descending order 8.41 7.49 6.41 5.47

Compare answers with a partner.

Is there more than one way to complete each list?