

Year 6 Maths Home Learning Resources
Term 5, Week 2

Session 2: Comparing and ordering decimal numbers.

These questions use and apply the comparing and ordering skills we discussed in the session 1 video. If you think that you might need a bit more practise, have another look at the video for session 1.

The answers are on the answer sheet so that you can check your work.

Can you explain it?



Colin says that these numbers are in order from smallest to largest.

4.2 4.12 4.25 4.205

Explain why he is incorrect:

(He is incorrect because he thought The correct answer is He should have)

He is incorrect because he thought that 4.12 was greater than 4.2, but 2 tenths is greater than 1 tenth. He also thought that 4.205 was greater than 4.25, but 5 hundredths is greater than 5 thousandths. The correct answer is 4.12, 4.2, 4.205, 4.25. He should have looked carefully at the value of each digit when he was comparing.

Can you apply it?



Find the missing numbers:

Fill in the missing digits to make these statements true.

Can you use each of the digits 0 – 9 only once each? How many different solutions can you find?

$0.216 < 0.261$
 $4.207 > 4.2$
 $3.345 > 1.347$
 $1.8 > 1.789$
 $2.6 > 2.59$
 $0.343 < 0.35$

One possible solution with the digits 0-9

Is it Always, Sometimes or Never True:

Try some examples to prove whether the statement is always, sometimes or never true. You need to have several examples to be truly convincing.

“If the ones digit is the same, a number with 3 decimal places is greater than a number with two decimal places.”

Sometimes: $3.204 < 3.24$ but $3.244 > 2.24$

Solve a Problem:

I have four digit-cards: 1, 3, 4, 7.

I use them to make different numbers with 3 decimal places: $_ . _ _ _$

The ones digit is a square number

The tenths and hundredths digits are prime numbers.

How many different numbers can you make?

Write the solutions in order from largest to smallest.

4.731; 4.371; 1.734; 1.374