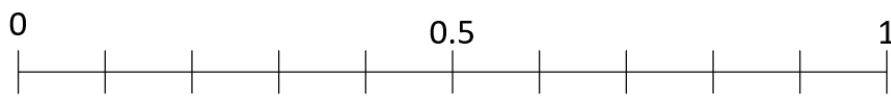


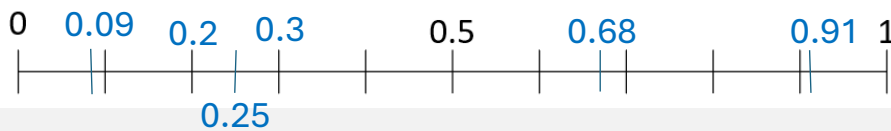
Lesson 16 – Negative Numbers on Number Lines and Ordering

Starter

Place these decimals onto the number line and then put them in ascending order:
0.2, 0.68, 0.25, 0.3, 0.09, 0.91



Starter Answers



Ascending order = 0.09, 0.2, 0.25, 0.3, 0.68, 0.91

We can see from the starter that **number lines** can be helpful to **place numbers in order**.

We are going to look at **negative numbers** on the number line and placing these in order.

Example 1

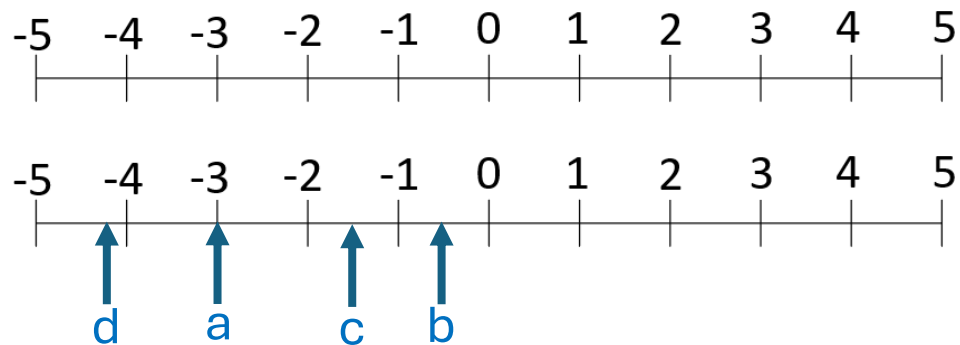
Mark the position of these numbers on the number line:

a) -3

b) -0.5

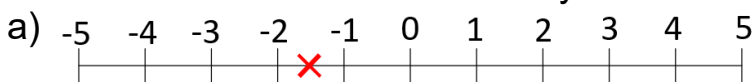
c) -1.5

d) $-4\frac{1}{5}$

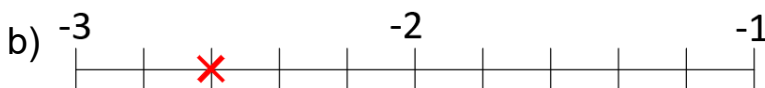


Example 2

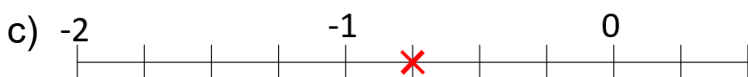
Write down the number marked by the cross on each number line



Half way between -1 and -2 is -1.5



There are 5 sections between -2 and -3, so we are counting up in 0.2's. So this is -2.6 or $-2\frac{3}{5}$



There are 4 sections between 0 and 1. So we are counting up in 0.25's. So this is -0.75 or $-\frac{3}{4}$

Your go

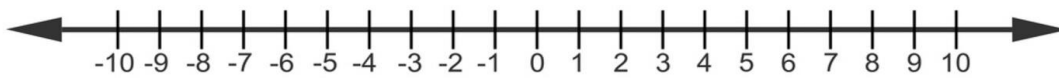


Answers

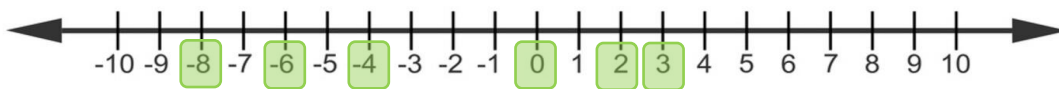
1) $-\frac{3}{7}$ 2) $-\frac{5}{8}$

Example 3

Use the number line to put these numbers in ascending order.

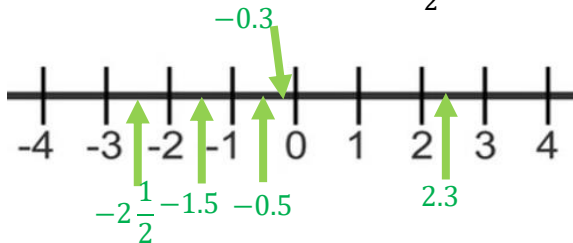


a) -8, 3, -4, -6, 2, 0



-8, -6, -4, 0, 2, 3

b) -0.5, 2.3, -0.3, -1.5, $-2\frac{1}{2}$



$-2\frac{1}{2}$, -1.5, -0.5, -0.3, 2.3