

Addition (4) - partitioning on a number line

(numbers with one decimal place)

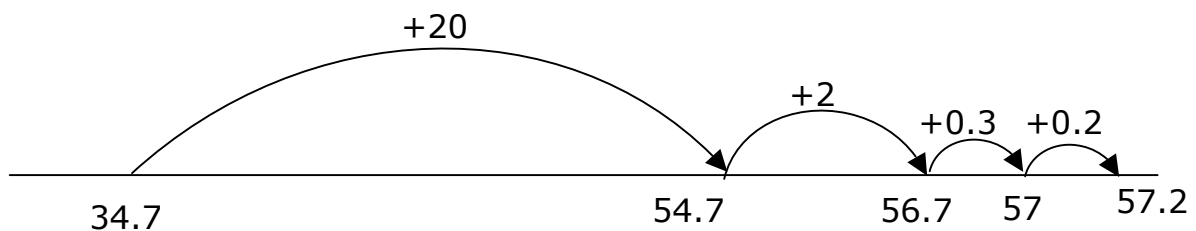
Today your child's homework involves calculating/solving problems, using addition of decimal numbers on a number line.

Example: My sunflower is 34.7cm tall. It grows another 22.5cm. How tall is it now?

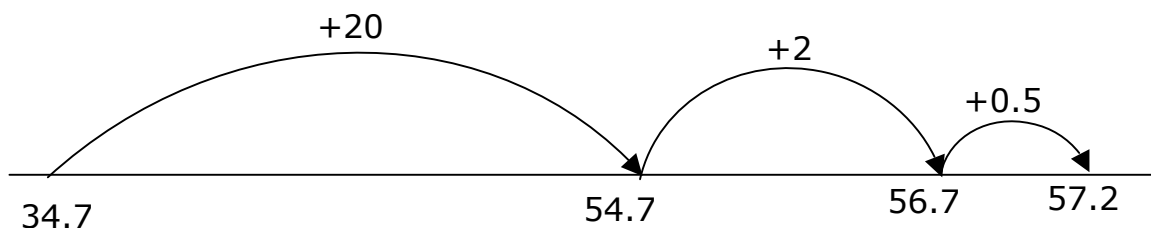
So we need $34.7 + 22.5$

This can be represented on a number line as shown below.

The largest number, usually, is placed near the beginning of the line. The second number is then partitioned into tens and ones/units and tenths ($20 + 2 + 0.5$). These are then added in turn and recorded on the line. The twenty is added to 34.7 to give 54.7, the 2 is added to this making 56.7 before the 0.5 is added as 0.3 to make 57 and then the remaining 0.2 to give 57.2.



In this second example the 0.5 is added in one jump.



This then is used to answer the question.

My sunflower is 57.2cm tall.