Find Averages

Read Jim Ray’s explanation of how he picked 3 numbers that have an average of 50.

Three numbers with an average of 50 must equal $3 \times 50$. $3 \times 50 = 150$. So, I needed to pick 3 numbers that add up to 150.

The first number could be any number from 0 to 150. I picked 21. $150 - 21$ is 129. I needed to pick 2 numbers that add up to 129.

The second number could be any number from 0 to 129. I picked 88. $129 - 88 = 41$. My last number had to be 41. 21, 88, and 41 add up to 150. $150 \div 3 = 50$.

Fill in the blanks below. Complete the explanation of how to find 3 numbers that have an average of 121.

Three numbers with an average of 121 must equal $3 \times$ ________.

$3 \times$ ________ = _________. So, I needed to pick 3 numbers that add up to _________.

The first number could be any number from 0 to _________. I picked _________. ________ - _________ is _________. I needed to pick 2 numbers that add up to _________.

The second number could be any number from 0 to _________. I picked _________. ________ - ________ = _________. My last number had to be _________. ________, ________, and ________ add up to _________. ________ $\div 3 =$ _________.

**Number picked will vary but should be less than 363.**

**This number is the difference between 363 and *.

***Number picked will vary but should be less than **.

****The last number must be the difference between ** and ***.