## Conditions

The heights in inches of three basketball players are 3 consecutive integers. If the sum of twice the 1st, 3 times the $2 n d$, and the 3 rd is 437 , what are the three heights.

## Solution

As we can notice, the heights in inches of three basketball players are 3 consecutive integers. So if we consider, that height of $1^{\text {st }}$ is $x$, then the height of $2^{\text {nd }}$ is equal to $(x+1)$, the height of $3^{\text {rd }}$ is $(x+2)$. And now we must sum these 3 values, $1^{\text {st }}$ will be powered by $2,2^{\text {nd }}$ by 3 , and $3^{\text {rd }}$ by 1 , and total is 437:
$2 x+3(x+1)+x+2=437$
$6 x=432$
$x=72$
Then, the height of $1^{\text {st }}$ is $72,2^{\text {nd }}-73,3^{\text {rd }}-74$ inches.

## Answer: 72, 73, 74

