## Answer on Question \#42207 - Mathematics - Algebra

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

Solution. Let $x$ is the height in inches of the 1st basketball player.
Then $x+1$ is the height in inches of the 2 nd basketball player and $x+2$ is the height in inches of the 3rd basketball player.
We form the equation: $2 x+3(x+1)+x+2=437$
$2 x+3 x+3+x+2=437$
$6 x+5=437$
$6 x=437-5$
$6 x=432$
$x=\frac{432}{6}$
$x=72$ (inches) We've found the height of the 1 st basketball player;
$x+1=72+1=73$ (inches) is the height of the 2 nd basketball player;
$x+2=72+2=74$ (inches) is the height of the 3rd basketball player.
Answer. 72 inches is the height of the 1 st basketball player; 73 inches - of the $2 \mathrm{nd} ; 74$ inches - of the 3 rd .

