

### Answer to Question#40202 - Math - Calculus

**Question:** Two minor league baseball players got a total of 308 hits. Washington had 18 more hits than Sanchez. Find the number of hits for each player.

**Solution.** Let us denote the number of hits that Sanchez had with  $x$ . Since Washington had 18 more hits than Sanchez, we can say that Washington had  $x + 18$  hits.

Now, since we are given that the total number of hits is 308, we may write

$$x + (x + 18) = 308.$$

This is an equation for finding  $x$ . Let us solve it:

$$2x + 18 = 308$$

$$2x = 290$$

$$x = 145.$$

Thus, Sanchez had 145 hits.

Finally, to find the number of hits by Washington, we add 18:

$$x + 18 = 145 + 18 = 163.$$

**Answer.** Sanchez had 145 hits, and Washington had 163 hits.