

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.