

Consider that the first odd integer is x and fourth consecutive integer is y .

It is assumed that the sum of the first and the last of the four have the sum of 48,

Which can be shown as $x+y=48$.

The difference between then consecutive odd integer will be 6,

Therefore

$$y-x=6$$

Add both the equations together and solve for y .

$$\cancel{x} + y = 48$$

$$\underline{y - \cancel{x} = 6}$$

$$2y = 54$$

$$y = 27$$

Then Substitute y in the first equation and solve for x .

$$x+27=48$$

$$x=21$$

Therefore the integers will be 21, 23, 25, and 27.