

ANSWER to Question #88096 – Math – Algebra

Question

1. An mtn cellular phone user notices that her cellular phone accounts for three consecutive months were significantly different. In May her account was one and a half times more than her account in June. Her account in July was R50 more than her account in June. In total she spent R575 in cellular accounts in the 3 months. What was her account for each month?
2. The sum of three consecutive odd number is 45. What are the numbers?

Solution

1. Let her account in June be Rs. x . Then

her account in May = Rs. $(x + 1.5x) = 2.5x$,

her account in July = Rs. $(x + 50)$.

Total spending $x + 2.5x + x + 50 = 575 \Rightarrow 4.5x = 575 \Rightarrow x = 127.78$ (apprx)

Hence May account = $2.5(127.78) = \text{Rs. } 319.44$

June account = Rs. 127.78

July account = Rs. 177.78

2. Let the numbers be n , $n + 2$ and $n + 4$.

Given $n + n + 2 + n + 4 = 45 \Rightarrow 3n = 45 - 6 = 39 \Rightarrow n = 13$

Hence the three numbers will be 13, 15, 17.