[HW] Math Hw(yay)

16. Let's denote the three consecutive even natural numbers as n, n+2, and n+4. The sum of these numbers is given as 48:

$$n + (n+2) + (n+4) = 48$$

 $3n + 6 = 48$
 $3n = 48-6$
 $3n = 42$
 $n=42/3$
 $n=14$

First Number= n=14 Second number= n+2= 16 Third Number= n+4= 18

So, the three consecutive even natural numbers are 14, 16, and 18.

17. Let the present ages of Ankita and Nikki be 7x and 2x respectively. Eight years after, their ages will be increased by 8, and the new ratio will be 5:2:

x=6

Cross-multiply to solve for x: 2(7x + 8) = 5(2x + 8) 14x + 16 = 10x + 40 14x-10x=40-16 4x = 24x = 24/4

So, Ankita's present age is 7x6 = 42 years, and Nikki's present age is 2x6 = 12 years.

18. The person borrowed Rs. 45000 at 8% per annum for 2 years. The interest can be calculated using the formula (PTR)/100, where P is the principal amount, R is the rate of interest, and T is the time in years.

$$(PTR)/100 = (45000 \times 8 \times 2)/100$$

= 7200

The total amount to be repaid is 45000 + 7200 = 52200. The person repaid Rs. 50000 in cash, so the remaining amount is given by 52200 - 50000 = 2200. This remaining amount is the price of the watch. Therefore, the price of the watch is Rs. 2200.