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## Question 1:

In which of the following situations, does the list of numbers involved make an arithmetic progression and why?

- (i) The taxi fare after each km when the fare is Rs 15 for the first km and Rs 8 for each additional km.  
 (ii) The amount of air present in a cylinder when a vacuum pump removes  $\frac{1}{4}$  of the air remaining in the cylinder at a time.  
 (iii) The cost of digging a well after every metre of digging, when it costs Rs 150 for the first metre and rises by Rs 50 for each subsequent metre.  
 (iv) The amount of money in the account every year, when Rs 10000 is deposited at compound interest at 8% per annum.

## Solution 1:

(i) Given : Fare of First Km = Rs.15  
 Fare for each Additional Km = Rs. 8  
 Hence, Taxi fare for 1st km = 15  
 Taxi fare for first 2 km = 15 + 8 = 23  
 Taxi fare for first 3 km = 23 + 8 = 31  
 Taxi fare for first 4 km = 31 + 8 = 39  
 Hence the Series formed is 15, 23, 31, 39  
 Since here the terms continuously increases by the same number 8, the above list forms an A.P.

(ii) Let the initial volume of air in a cylinder be V lit. In each stroke, the vacuum pump removes  $\frac{1}{4}$  of air remaining in the cylinder at a time.

In other words, after every stroke, only  $1 - \frac{1}{4} = \frac{3}{4}$ th part of air will remain.

Hence the series can be written as below

$$V, \frac{3V}{4}, \frac{3V}{4} \cdot \frac{3V}{4} \left(\frac{1}{4}\right) \dots$$

$$= V, \frac{3V}{4}, \frac{12V - 3V}{16} \dots$$

$$= V, \frac{3V}{4}, \frac{9V}{16} \dots$$

pump removes  $\frac{1}{4}$  of the air remaining in the cylinder at a time.

(iii) The cost of digging a well after every metre of digging, when it costs ₹ 150 for the first metre and rises by ₹ 50 for each subsequent metre.

(iv) The amount of money in the account every year, when ₹ 10000 is deposited at compound interest at 8% per annum.

**Sol.** (i) Yes. ₹ 15, ₹ 23, ₹ 31, ..... is an A.P. as common difference is ₹ 8.

(ii) No.  $1, \frac{3}{4}, \frac{9}{16}, \frac{27}{64}, \dots$  is not an A.P. as common difference is not constant.

(iii) Yes. ₹ 150, ₹ 200, ₹ 250, ..... is an A.P. as common difference is ₹ 50.

(iv) No. ₹  $10000 \times \frac{108}{100}, ₹ 10000 \times \left(\frac{108}{100}\right)^2,$

₹  $10000 \left(\frac{108}{100}\right)^3, \dots$  is not an A.P. as common difference is not constant.

2. Write first four terms of the AP, when the first term  $a$  and the common difference  $d$  are given as follows:

(i)  $a = 10, d = 10$  (ii)  $a = -2, d = 0$

(iii)  $a = 4, d = -3$  (iv)  $a = -1, d = \frac{1}{2}$

(v)  $a = -1.25, d = -0.25$

**Sol.** We will use: A.P. is  $a, a + d, a + 2d, \dots$

(i) terms are 10, 10 + 10, 10 + 20, 10 + 30, i.e., 10, 20, 30, 40.

(ii) terms are -2, -2 + 0, -2 + 0, -2 + 0, i.e., -2, -2, -2, -2.

(iii) terms are 4, 4 - 3, 4 - 6, 4 - 9, i.e., 4, 1, -2, -5.

(iv) terms are -1, -1 +  $\frac{1}{2}$ , -1 + 1, -1 +  $\frac{3}{2}$ ,

i.e., -1, - $\frac{1}{2}$ , 0,  $\frac{1}{2}$ .





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