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Question 9:

If the 3rd and the 9th terms of an A.P. are 4 and -8 respectively.

Which term of this A.P. is zero.

Answer:

Given that,

$a_3 = 4$

$a_9 = -8$

We know that,

$a_n = a + (n - 1)\, d$

$a_3 = a + (3 - 1)\, d$

$4 = a + 2d$ (I)

$a_9 = a + (9 - 1)\, d$

$-8 = a + 8d$ (II)

On subtracting equation (I) from (II), we obtain

$-12 = 6d$

$d = -2$

From equation (I), we obtain

$4 = a + 2\,(-2)$

$4 = a - 4$

$a = 8$

Let n^{th} term of this A.P. be zero.

$a_n = a + (n - 1)\, d$

$0 = 8 + (n - 1)\,(-2)$

$0 = 8 - 2n + 2$

$2n = 10$

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

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

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

3. For the following APs, write the first term and the common difference:

    (i) $3, 1, -1, -3, \ldots$ (ii) $-5, -1, 3, 7, \ldots$

    (iii) $\dfrac{1}{3}, \dfrac{5}{3}, \dfrac{9}{3}, \dfrac{13}{3}, \ldots$ (iv) $0.6, 1.7, 2.8, 3.9, \ldots$

4. Which of the following are APs ? If they form an AP, find the common difference d and write three more terms.

    (i) $2, 4, 8, 16, \ldots$ (ii) $2, \dfrac{5}{2}, 3, \dfrac{7}{2}, \ldots$

    (iii) $-1.2, -3.2, -5.2, -7.2, \ldots$ (iv) $-10, -6, -2, 2, \ldots$

    (v) $3, 3 + \sqrt{2}, 3 + 2\sqrt{2}, 3 + 3\sqrt{2}, \ldots$ (vi) $0.2, 0.22, 0.222, 0.2222, \ldots$

    (vii) $0, -4, -8, -12, \ldots$ (viii) $-\dfrac{1}{2}, -\dfrac{1}{2}, -\dfrac{1}{2}, -\dfrac{1}{2}, \ldots$

[Hint: to pick up the first potato and the second potato, the total
distance (in metres) run by a competitor is $2 \times 5 + 2 \times(5 + 3)$]
Answer:

The distances of potatoes are as follows.
5, 8, 11, 14...
It can be observed that these distances are in A.P.
$a = 5$
$d = 8 - 5 = 3$
$S_n = \frac{n}{2}[2a + (n-1)d]$
$S_{10} = \frac{10}{2}[2(5) + (10-1)3]$
$= 5[10 + 9 \times 3]$
$= 5(10 + 27) = 5(37)$
$= 185$
As every time she has to run back to the bucket, therefore, the total
distance that the competitor has to run will be two times of it.
Therefore, total distance that the competitor will run $= 2 \times 185$
$= 370$ m
Alternatively,
The distances of potatoes from the bucket are 5, 8, 11, 14..

(iii) $t_1 = a = 4$

    $t_2 = a + d = 4 - 3 = 1$

    $t_3 = a + 2d = 4 + 2(-3) = 4 - 6 = -2$

    $t_4 = a + 3d = 4 + 3(-3) = 4 - 9 = -5$

    Thus, the first four terms are **4, 1, $-$ 2** and **$-$ 5**

(iv) $t_1 = a = -1$

    $t_2 = a + d = -1 + \dfrac{1}{2} = -\dfrac{1}{2}$

    $t_3 = a + 2d = -1 + 2 \times \dfrac{1}{2} = 0$

    $t_4 = a + 3d = -1 + 3 \times \dfrac{1}{2} = \dfrac{1}{2}$

    Thus, the first four terms are **$-1, -\dfrac{1}{2}$, 0** and $\dfrac{1}{2}$.

(v) $t_1 = a = -1.25$

    $t_2 = a + d = -1.25 - 0.25 = -1.50$

    $t_3 = a + 2d = -1.25 + 2 \times (-0.25) = -1.75$

    $t_4 = a + 3d = -1.25 + 3 \times (-0.25) = -2$

    Thus, the first four terms are **-1.25, -1.50, -1.75** and **-2**.

Question 5. Find five numbers in A.P. whose sum is 12.5 and the ratio of the first to the last terms is 2 : 3.

Solution:

We know that,

Sum of n terms of an A.P $= \dfrac{n}{2}[a + l]$

Let the first term be 2x and the last term be 3x.

$\therefore$ Sum of 5 terms of an A.P $= \dfrac{5}{2}[2x + 3x]$

$\Rightarrow \quad \dfrac{25}{2} = \dfrac{5}{2}[2x + 3x]$

$\Rightarrow \quad 25 = 25x$

$\Rightarrow \quad x = 1$

First term $= 2x = 2 \times 1 = 2$ and the last term $= 3x = 3 \times 1 = 3$

n^{th} term of an A.P. is given by

$t_n = a + (n - 1)d$

$\Rightarrow a_5 = 2 + (5 - 1)d$

$\Rightarrow 3 = 2 + 4d$

$\Rightarrow 1 = 4d$

$\Rightarrow d = \dfrac{1}{4} = 0.25$

Therefore the five numbers in an A.P are 2, 2.25, 2.50, 2.75 and 3.

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