



$$t_n = 1, 2, 3, \dots$$

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$$t_{10} = (t_0 + 1) = 1$$

$$t_n = 1, 2, 3, \dots \rightarrow t_n = 1, 2, 3, \dots \rightarrow t_n = 1, 2, 3, \dots \rightarrow d = 1$$

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Year:

Month:

Day:

| |

Subject:



$$a_1 + a_2 + a_3 = a_1 + r + a_1 + r + a_1 + r = 15 \rightarrow 3a_1 + 3r = 15 \rightarrow a_1 + r = 5 \quad (1)$$

$$a_1 + a_2 = a_1 + r + a_1 + r + a_1 + r = 15 \rightarrow 3a_1 + 3r = 15 \rightarrow a_1 + r = 5 \quad (2)$$

$$a_1 + r + 10 = 15 \rightarrow a_1 = 5 - r \rightarrow 0, 5, 10, \dots \rightarrow d = 5$$

$$a_{10} = a_1 + 9d = 0 + 9 \times 5 = 45$$

$$S_9 = 95 \rightarrow \frac{9}{2}(a_1 + a_9) = 9(a_1 + r) = \frac{a_1 + a_9}{2} = a_1 + a_9 \rightarrow a_1 + a_9 = 2a_1 + 8r \quad (3)$$

$$\rightarrow a_1 = a_9 - 8r = a_1 + 8r - 8r = 0 \rightarrow a_1 = 0$$

$$\rightarrow \frac{a_{10}}{a_1} = \frac{a_1 + 9d}{a_1 + r} = \frac{0 + 9 \times 5}{0 + 5} = \frac{45}{5} = 9$$

$$a_1 = 11 \quad a_5 = 15 = a_1 + 4d = 11 + 4d \rightarrow 4d = 4 \rightarrow d = 1 \rightarrow a_5 = a_1 + 4d = 11 + 4 \times 1 = 15 \quad (4)$$

$$b_1 = 11 \quad b_5 = 15$$

$$b_5 = b_1 + 4d = 15 \rightarrow 11 + 4d = 15 \rightarrow 4d = 4 \rightarrow d = 1$$

$$\frac{15 - 11}{n+1} = -d \rightarrow 15 - 11 = -d(n+1) \rightarrow 4 = -d(n+1) \rightarrow 4 = -1(n+1) \rightarrow n = -5 \rightarrow 15$$