

4. Starting with a positive integer M written on the board, Alice plays the following game: in each move, if x is the number on the board, she replaces it with $3x + 2$. Similarly, starting with a positive integer y written on the board, Bob plays the following game: in each move, if x is the number on the board, he replaces it with $2x + 27$. Given that Alice and Bob reach the same number after playing 4 moves each, find the smallest value of $M + N$.

Answer (10)

Sol. Alice, after 1st move = $3M + 2$

$$\begin{aligned}\text{after 2nd move} &= 3(3M + 2) + 2 \\ &= 9M + 8\end{aligned}$$

$$\begin{aligned}\text{after 3rd move} &= 3(9M + 8) + 2 \\ &= 27M + 26\end{aligned}$$

$$\begin{aligned}\text{after 4th move} &= 3(27M + 26) + 2 \\ &= 81M + 80\end{aligned}$$

Bob, after 1st move = $2N + 27$

$$\begin{aligned}\text{after 2nd move} &= 2(2N + 27) + 27 \\ &= 4N + 81\end{aligned}$$

$$\begin{aligned}\text{after 3rd move} &= 2(4N + 81) + 27 \\ &= 8N + 189\end{aligned}$$

$$\begin{aligned}\text{after 4th move} &= 2(8N + 189) + 27 \\ &= 16N + 405\end{aligned}$$

After 4 moves

$$81M + 80 = 16N + 405$$

$$N = \frac{81M - 325}{16} = \frac{80(M - 4) + M - 5}{16}$$

$$= 5(M - 4) + \frac{M - 5}{16} \text{ is least positive integer is } M = 5$$

$$\therefore N = 5$$

$$\therefore \text{least value of } M + N = 10$$

5. Let m be the smallest positive integer such that $m^2 + (m + 1)^2 + \dots + (m + 10)^2$ is the square of a positive integer n . Find $m + n$.

Answer (95)

Sol. $m^2 + (m + 1)^2 + \dots + (m + 10)^2$

$$= 11m^2 + 2(1 + 2 + 3 + \dots + 10)m + 1^2 + 2^2 + \dots + 10^2$$

$$= 11m^2 + 110m + 385$$

$$= 11(m^2 + 10m + 35)$$

$$\text{To set } n^2 = 11(m^2 + 10m + 35)$$

$$m^2 + 10m + 35 \text{ is multiple of } 11$$

$$= (m + 5)^2 + 10$$

$$\text{For } m = 18$$

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VM Jensen



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