

رقعتان گروہ ہے

نام و نام خانوادگی: پیرنیا ایسی سر

$$① \quad \text{جمعی مجموعہ} = n^2 + \frac{(n-1)n}{2} = 1.2 + \frac{9 \times 10}{2} = 145$$

$$② \quad \left. \begin{array}{l} \frac{0}{1}, \frac{1}{2}, \frac{4}{3} \\ \frac{1}{1} = 2a \Rightarrow a = \frac{1}{2} \end{array} \right\} \begin{array}{l} a + b + c = 0 \Rightarrow \frac{1}{2}n^2 - \frac{1}{2}n = 0 \\ \frac{1}{2} - \frac{1}{2} \\ n^2 - n = 11 \Rightarrow n(n-1) = 11 \Rightarrow n = 11 \end{array}$$

$$③ \quad 6, 9, 12 \Rightarrow \text{مجموعہ اولی: } \{n+1\} \Rightarrow \tau_{11} = \{2+1\} = \{3\}$$

$$0, 4, 8, \dots \Rightarrow \text{مجموعہ دومی: } \{n-2\} \Rightarrow \tau_{11} = \{4-2\} = \{2\}$$

$$\{3\} + \{2\} = 5$$

$$④ \quad \begin{array}{l} n=1 \rightarrow -1 \\ n=2 \rightarrow \frac{1}{2} \\ n=3 \rightarrow -\frac{1}{2} \end{array} \xrightarrow{\text{اندر درون بدستوریں}} \Rightarrow \max - \min = \frac{1}{2} + 1 = \frac{3}{2}$$

$$⑤ \quad b^2 = (-2)^2 - v(2) = -27 - 21 = -48$$

$$a_n = -6n + 22 = -48 \Rightarrow -6n = -70 \Rightarrow n = 11\frac{2}{3}$$

$$⑥ \quad (10a+b) - (7a+b) = 12 \Rightarrow 10a+b-7a-b=12 \Rightarrow 3a=12 \Rightarrow a=4$$

$$a_4 - a_1 = (4a+b) - (a+b) = 3a = 3 \times 4 = 12$$

$$⑦ \quad \begin{array}{l} 3a+b=16 \\ 2a+b=7 \end{array} \Rightarrow \begin{array}{l} 3a+b=16 \\ -2a-b=-7 \\ \hline 5a=23 \Rightarrow a=4.6 \end{array} \Rightarrow \begin{array}{l} a_1=3 \\ a_2=11 \end{array}$$

$$3, 11, \dots \Rightarrow \text{جمعی مجموعہ} = 11n - 5$$

