

$$\{1\}, \{2,3,4\}, \{5,6,7,8,9\}, \{1,11,12,13,14,15,16\}, \{17,18,19,20,21,22,23,24,25\}$$

(1) ✓✓

$$\begin{array}{c} 1, 2, 5, 10, 17 \\ \underbrace{1+2=3} \quad \underbrace{2+5=7} \quad \underbrace{5+10=15} \\ \underbrace{3+7=10} \quad \underbrace{7+15=22} \quad \underbrace{10+22=32} \end{array}$$

$$n^2 + 2n + 1 = 2n + 1 + n^2 = 1 + 1 + 2 + 4 = 8$$

الکثر اعداد اول پر دستہ :
دستہ آخر : 11 : 9

$$s = \frac{90+11}{2}, \frac{142}{2}, 53$$

$$\{1,2,3\}, \{4,5,6,7,8,9,10,11,12\}, \{13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30\}$$

(2) ✓✓✓

$$\begin{array}{c} 1, 4, 9, 16, 25 \\ \underbrace{1+9=10} \quad \underbrace{4+16=20} \quad \underbrace{9+25=34} \\ \underbrace{10+20=30} \quad \underbrace{20+34=54} \quad \underbrace{30+54=84} \end{array}$$

$$121 \leftarrow \text{عبداللہ بنیہ} \quad 363 \text{ عدد فرد، عدد زوج، } \frac{363+11}{2}, \frac{484}{2}, 242$$

$$\begin{array}{l} t_1 = 1, t_2 = 4, t_3 = 9, t_4 = 16, t_5 = 25 \\ t_6 = 36, t_7 = 49, t_8 = 64, t_9 = 81, t_{10} = 100 \\ t_{11} = 121, t_{12} = 144, t_{13} = 169, t_{14} = 196, t_{15} = 225 \end{array}$$

$$\left. \begin{array}{l} t_1 + t_2 + t_3 + t_4 + t_5 + t_6 + t_7 + t_8 + t_9 + t_{10} + t_{11} + t_{12} + t_{13} + t_{14} + t_{15} \\ t_1 + t_2 + t_3 + t_4 + t_5 + t_6 + t_7 + t_8 + t_9 + t_{10} + t_{11} + t_{12} + t_{13} + t_{14} + t_{15} \end{array} \right\} \begin{array}{l} s, f + a + 1 + 4 + 9 + 16 + 25 + 36 + 49 + 64 + 81 + 100 + 121 + 144 + 169 + 196 + 225 \\ s, 22 + 3a + 19 \Rightarrow a = -1 \end{array}$$

$$a_1 = 1, a_2 = 4, a_3 = 9, a_4 = 16, a_5 = 25, a_6 = 36, a_7 = 49, a_8 = 64, a_9 = 81, a_{10} = 100, a_{11} = 121, a_{12} = 144, a_{13} = 169, a_{14} = 196, a_{15} = 225$$

$$\left. \begin{array}{l} a_1 + a_2 + a_3 + a_4 + a_5 + a_6 + a_7 + a_8 + a_9 + a_{10} + a_{11} + a_{12} + a_{13} + a_{14} + a_{15} \\ a_1 + a_2 + a_3 + a_4 + a_5 + a_6 + a_7 + a_8 + a_9 + a_{10} + a_{11} + a_{12} + a_{13} + a_{14} + a_{15} \end{array} \right\} \begin{array}{l} s, a_1 + a_2 + a_3 + a_4 + a_5 + a_6 + a_7 + a_8 + a_9 + a_{10} + a_{11} + a_{12} + a_{13} + a_{14} + a_{15} \\ s, 9 + 16 + 25 + 36 + 49 + 64 + 81 + 100 + 121 + 144 + 169 + 196 + 225 \end{array}$$

$$\frac{1}{x} \times \frac{1}{y} = \frac{1}{xy}$$

(3) ✓✓✓

$$\frac{1}{x} n^2 + xh + y \rightarrow -x + n + y, 14, 20, x + y, 19$$

$$y \rightarrow \frac{-49 + 16n + y}{x}, \frac{14}{x} \rightarrow 16n + y, \frac{19}{x} \rightarrow 20$$

$$s, 2n + 1, n + 1 \Rightarrow y = -1, a_1 = \frac{1d + 1}{-1} + 10 - 1 = 14$$

$$a_1 = \frac{1}{x} + 1 - 1, 2 - \frac{1}{x}, 14$$

$$\Rightarrow \frac{1}{x} = \frac{1}{14} \Rightarrow x = 14$$

$$\frac{ar^3}{ar^3} + \frac{ar}{a^2} = \frac{r^2 + ar}{a^2 a^2} \quad \frac{1}{r} \underline{61(9)}$$

$$\Rightarrow \sqrt{a^2 r^2 + ar} \Rightarrow r^2 + ar - \sqrt{a^2} \Rightarrow -a \pm \sqrt{a^2 + 4a^2} \Rightarrow \frac{-a \pm \sqrt{5}a}{2}$$

$$\Rightarrow \textcircled{1} r = \frac{\sqrt{a}}{2} \Rightarrow a \Rightarrow \frac{a^2}{ar} = \frac{a^2}{a^2} \Rightarrow \boxed{1}$$

$$\Rightarrow \textcircled{2} r = -\frac{\sqrt{a}}{2} \Rightarrow \frac{a^2}{ar} = \frac{a^2}{-a^2} \Rightarrow \boxed{-1}$$

$$\frac{a_F}{a_F} = \frac{(a_F)^2}{(a_F)^2}, a_F = q$$

$$\Rightarrow \frac{r^2}{(a_F)^2} = a_F \Rightarrow (a_F)^2 = r^2 \Rightarrow a_F = r \Rightarrow q = r \Rightarrow \frac{1}{r} = \frac{1}{r} \Rightarrow \boxed{\frac{1}{q}}$$