

ROJGAR WITH ANKIT

Number Series

PART → 7

(1). 160, 183, 213, 252, 302, ³⁶⁵?, 443

23 30 39 50 63

7 9 11 13

(2). 20, 20, 24, 42, 90, (?) 190

0 4 18 48 100

4 14 30 52

10 16 22

(3). 8, 17, ⁵³?, 197, 773, 3077

9 36 144 576 2304

$(3)^2$ $(6)^2$ $(12)^2$ $(24)^2$ $(48)^2$

(4). 57, 69, 88, 112, 150, 186, 243, ? 291

12 19 24 38 36 57 48

(5). 11, 14, 26, 53, 101, ? 176

3 12 27 48 75

9 15 21 27

(6). 2, 12, 30, ⁵⁶?, 90, 132

10 18 26 34 42

8 8 8 8

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(7). $3, 20, 63, 144, 275, ? 468$

$\underbrace{3}_{17}, \underbrace{20}_{43}, \underbrace{63}_{81}, \underbrace{144}_{131}, \underbrace{275}_{193}$

$\underbrace{17}_{26}, \underbrace{43}_{38}, \underbrace{81}_{50}, \underbrace{131}_{62}, \underbrace{193}_{?}$

(8). $2, 3, 2, 15, ? 245$

$\underbrace{2}_{\times 1}, \underbrace{3}_{\times 2}, \underbrace{2}_{\times 3}, \underbrace{15}_{\times 4 - (4)^2}, \underbrace{?}_{\times 5 + (5)^2}, \underbrace{245}_{\times 6 + (6)^2}$

$\Rightarrow 44$

(9). $0, 2, 8, 14, 24, 34, 48, 62$

$\begin{array}{l} (1)^2 - 1 \\ (2)^2 - 2 \\ (3)^2 - 1 \\ (4)^2 - 2 \end{array} \quad \begin{array}{l} (5)^2 - 1 \\ (6)^2 - 2 \\ (7)^2 - 1 \\ (8)^2 - 2 \end{array}$

(10). $6, 20, 36, 48, 50, 36, 0$

$\begin{array}{l} (1)^2 \times 6 \\ (2)^2 \times 5 \\ (3)^2 \times 4 \\ (4)^2 \times 3 \\ (5)^2 \times 2 \\ (6)^2 \times 1 \\ (7)^2 \times 0 \end{array}$

(11). $1, 16, 81, 256, 625, ? 1296$

$\begin{array}{l} (1)^2 \\ (4)^2 \\ (9)^2 \\ (16)^2 \\ (25)^2 \\ (36)^2 \end{array}$

(12). $1, 1, 5, 21, 57, 121, ? 221$

$\underbrace{1}_0, \underbrace{1}_4, \underbrace{5}_{16}, \underbrace{21}_{36}, \underbrace{57}_{64}, \underbrace{121}_{100}, \underbrace{?}_{144}$

(13). $3, 12, 27, 48, 75, 108, ? 147$

$\underbrace{3}_9, \underbrace{12}_{15}, \underbrace{27}_{21}, \underbrace{48}_{27}, \underbrace{75}_{33}, \underbrace{108}_{39}, \underbrace{?}_{45}$

(14). $0, 0, 3, 7, 8, 26, 15, ? 63$

$\begin{array}{l} (1)^2 - 1 \\ (1)^3 - 1 \\ (2)^2 - 1 \\ (2)^3 - 1 \\ (3)^2 - 1 \\ (3)^3 - 1 \\ (4)^2 - 1 \\ (4)^3 - 1 \end{array}$