

NUMBER SERIES TEST - 02

- 1) 1, 2, 6, 24, ?, 720  
a) 3    b) 5    c) 120    d) 8
- 2) 9, 28, 65, ?, 217, - - - - (NMMS-2013)  
a) 126    b) 115    c) 116    d) 124
- 3) 36, 4, 18, 8, 9, 16, ?, - - - - (NMMS-2013)  
a) 18    b) 32    c) 8    d)  $\frac{9}{2}$
- 4) 5, 7, 12, 19, ?, 50, - - - -  
a) 30    b) 31    c) 18    d) 26
- 5) 1, 4, 9, 16, 25, - - - -  
a) 64    b) 81    c) 49    d) 36
- 6) 1, 1, 2, 3, 5, 8, 13, 21, - - - -  
a) 34    b) 30    c) 29    d) 37
- 7) 1, 1, 4, 8, 9, 27, 16, 64, - - - - , - - - -  
a) 36, 216    b) 49, 343    c) 25, 125  
d) 16, 64
- 8) 0, 3, 8, 15, 24, - - - -  
a) 80    b) 48    c) 63    d) 35
- 9) 12, 32, 72, 152, - - - - , 632  
a) 352    b) 254    c) 270    d) 312
- 10) 8, 9, 32, 47, - - - -  
a) 64    b) 62    c) 61    d) 66

ANSWER KEY

1) (c) 120

$$1 \times 2 = 2$$

$$2 \times 3 = 6$$

$$6 \times 4 = 24$$

$$24 \times 5 = 120$$

$$120 \times 6 = 720$$

$$? = 120$$

2) (a) 126

$$2^3 + 1 = 8 + 1 = 9$$

$$3^3 + 1 = 27 + 1 = 28$$

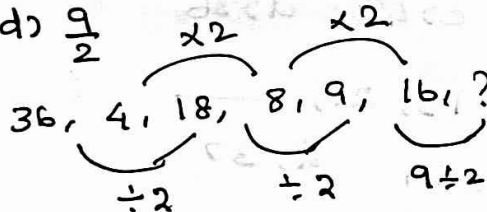
$$4^3 + 1 = 64 + 1 = 65$$

$$5^3 + 1 = 125 + 1 = 126$$

$$6^3 + 1 = 216 + 1 = 217$$

$$? = 126$$

3) (d)  $\frac{9}{2}$



$$? = 9 \div 2 = \frac{9}{2}$$

4) (b) 31

5

7

$$5 + 7 = 12$$

$$7 + 12 = 19$$

$$12 + 19 = 31$$

$$19 + 31 = 50$$

$$? = 31$$

5) (d) 36

$$\begin{array}{ll} 1^2 = 1 & 4^2 = 16 \\ 2^2 = 4 & 5^2 = 25 \\ 3^2 = 9 & 6^2 = 36 \end{array}$$

6) (a) 34

$$\begin{array}{ll} 1, 1, & \\ 1+1 = 2 & 5+8 = 13 \\ 1+2 = 3 & 8+13 = 21 \\ 2+3 = 5 & 13+21 = 34 \\ 3+5 = 8 & \end{array}$$

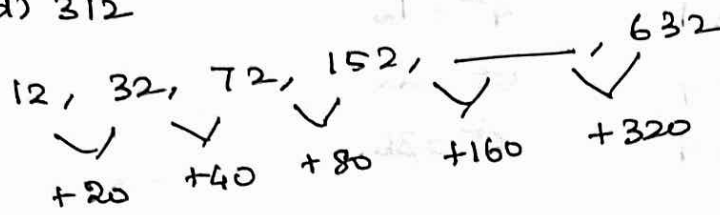
7) (c) 25, 125

$$\begin{array}{llll} 1, 1, 4, 8, 9, 27, 16, 64, \dots, \dots & & & \\ 1^2 = 1 & 2^2 = 4 & 3^2 = 9 & 4^2 = 16 \\ 1^3 = 1 & 2^3 = 8 & 3^3 = 27 & 4^3 = 64 \\ & 5^2 = 25 & & \\ & 5^3 = 5 \times 5 \times 5 = 125 & & \\ & 25, 125. & & \end{array}$$

8) (d) 35

$$\begin{array}{l} 0 \\ 0+3 = 3 \\ 3+5 = 8 \\ 8+7 = 15 \\ 15+9 = 24 \\ 24+11 = 35 \end{array}$$

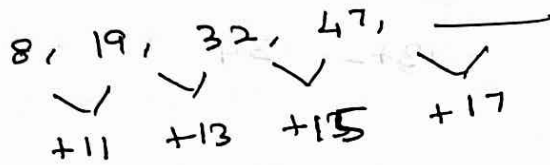
9) (d) 312



$$152 + 160 = 312$$

$$312 + 320 = 632 \checkmark$$

10) (a) 64



$$47 + 17 = 64 \checkmark$$