

Quiz Date: 17th February 2020

Directions (1-15): What will come in place of the question mark (?) in the following number series?

Q1. 313, 323, 329, 337, 357, 445, ?

- (a) 96
- (b) 1272
- (c) 771
- (d) 1165
- (e) 1245

Q2. 11.74, 12.95, 14.39, 16.08, 18.04, 20.29, ?

- (a) 22.37
- (b) 23.09
- (c) 22.85
- (d) 24.17
- (e) 22.35

Q3. 945, 105, 840, 120, 720, 144, ?

- (a) 576
- (b) 656
- (c) 696
- (d) 524
- (e) 592

Q4. ?, 10, 24, 81, 340, 1725, 10386

- (a) 6
- (b) 9
- (c) 5
- (d) 3
- (e) 8

Q5. 323, 306, 284, 247, 185, 88, ?

- (a) 32
- (b) -28
- (c) 4
- (d) -24
- (e) -54

Q6. ?, 24, 43, 66, 95, 126, 163

- (a) 11
- (b) 7
- (c) 15
- (d) 4



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(e) 9

Q7. 31, ?, 4.5, 5.5, 13, 56, 456

- (a) 8
- (b) 16
- (c) 6
- (d) 12
- (e) 10

Q8. 32, 96, 164, 236, 312, ?, 476

- (a) 384
- (b) 376
- (c) 412
- (d) 392
- (e) 408

Q9. 5, 26, 9, 50, 17, 82, 33, ?

- (a) 101
- (b) 117
- (c) 98
- (d) 122
- (e) 126

Q10. 5, 7, 17, 55, 225, ?, 6793

- (a) 1131
- (b) 1127
- (c) 1141
- (d) 1027
- (e) 1156

Q11. 61, 72, 133, 205, 338, 543, ?

- (a) 793
- (b) 841
- (c) 779
- (d) 827



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(e) 881

Q12. 127, 126, 130, 103, 119, -6, ?

- (a) 74
- (b) 30
- (c) 47
- (d) 93
- (e) 78

Q13. 8, 14, 32, 70, 136, ?

- (a) 248
- (b) 247
- (c) 237
- (d) 238
- (e) None of these

Q14. 14175, 3150, 900, 360, 240, ?

- (a) 480
- (b) 520
- (c) 560
- (d) 600
- (e) 215

Q15. 4, 48, 180, 400, 708, 1104, ?

- (a) 2164
- (b) 1924
- (c) 1744
- (d) 1588
- (e) 2000

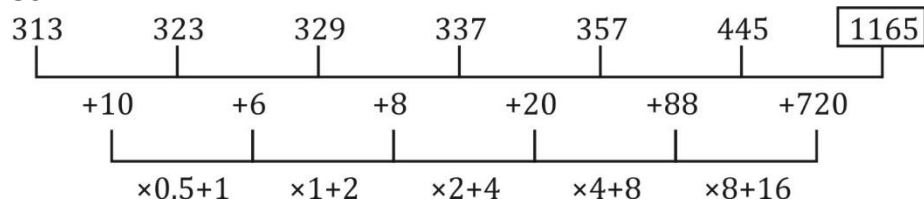
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Solutions

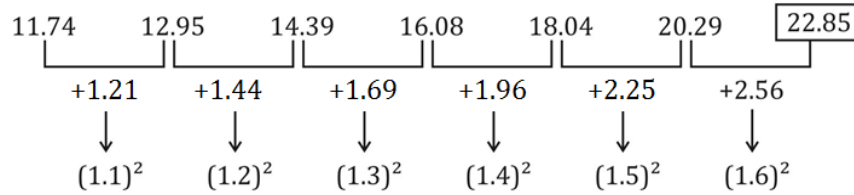
S1. Ans.(d)

Sol.



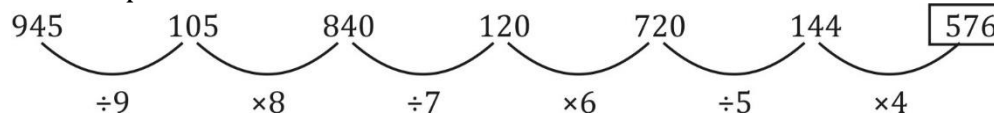
S2. Ans.(c)

Sol. The pattern of the series is



S3. Ans.(a)

Sol. The pattern of the series is :



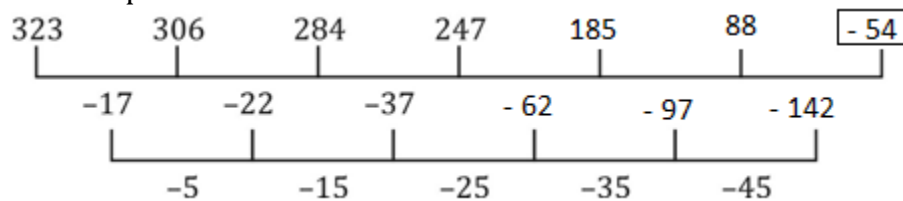
S4. Ans.(b)

Sol. The pattern of the series is

$9 \times 1 + (1)^2 = 10$
 $10 \times 2 + (2)^2 = 24$
 $24 \times 3 + (3)^2 = 81$
 $81 \times 4 + (4)^2 = 340$
 $340 \times 5 + (5)^2 = 1725$
 $1725 \times 6 + (6)^2 = 10386$

S5. Ans.(e)

Sol. The pattern of the series is



S6. Ans.(b)

Sol. The pattern of the series is :

The series is prime no series



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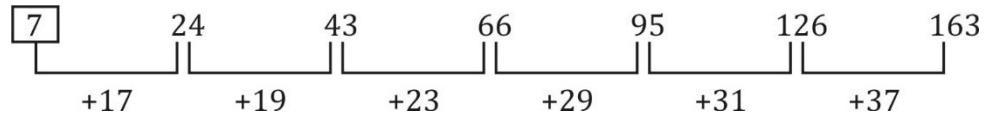
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S7. Ans.(a)

Sol. The pattern of the series is:

$$31 \times 0.25 + 0.25 = \boxed{8}$$

$$8 \times 0.5 + 0.5 = 4.5$$

$$4.5 \times 1 + 1 = 5.5$$

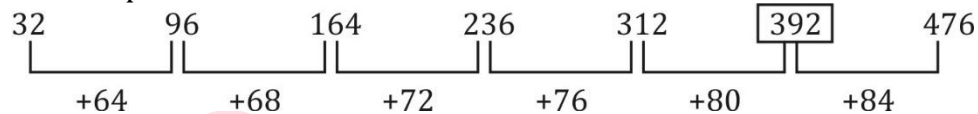
$$5.5 \times 2 + 2 = 13$$

$$13 \times 4 + 4 = 56$$

$$56 \times 8 + 8 = 456$$

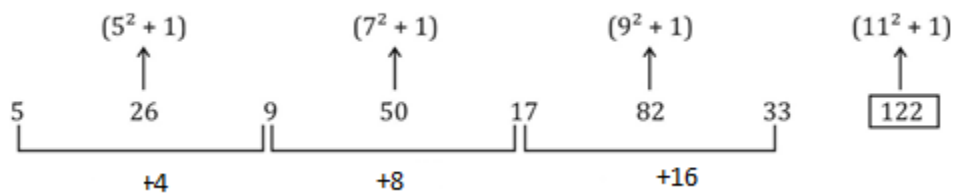
S8. Ans.(d)

Sol. The pattern of the series is



S9. Ans.(d)

Sol. This is a double pattern series:



S10. Ans.(a)

Sol. The pattern of the series is :

$$5 \times 1 + 2 = 7$$

$$7 \times 2 + 3 = 17$$

$$17 \times 3 + 4 = 55$$

$$55 \times 4 + 5 = 225$$

$$225 \times 5 + 6 = \boxed{1131}$$

$$1131 \times 6 + 7 = 6793$$

S11. Ans.(e)

Sol. The pattern of the series is

$$61 + 72 = 133$$

$$72 + 133 = 205$$

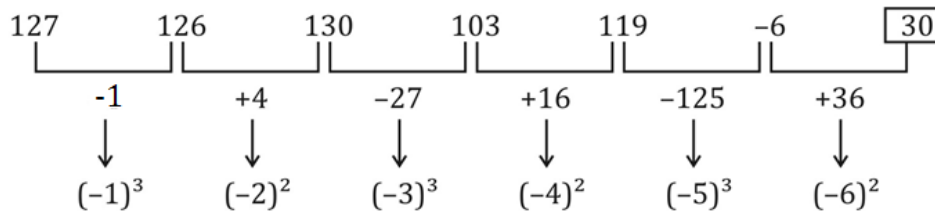
$$133 + 205 = 338$$

$$205 + 338 = 543$$

$$338 + 543 = \boxed{881}$$

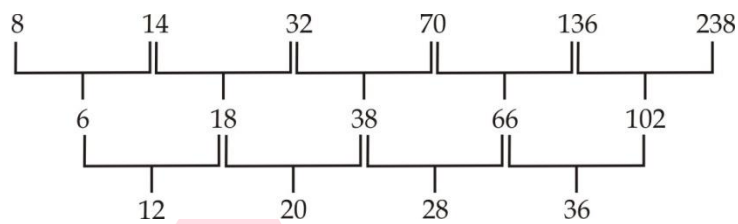
S12. Ans.(b)

Sol. The pattern of the series is:



S13. Ans. (d)

Sol.



S14. Ans. (a)

Sol.

$$14175 \times \frac{2}{9}, 3150 \times \frac{2}{7}, 900 \times \frac{2}{5}, 360 \times \frac{2}{3}$$

$$\therefore 240 \times \frac{2}{1} = 480$$

S15. Ans. (d)

Sol.

4

$$48 = 4 + 1 \times 44$$

$$180 = 48 + 3 \times 44$$

$$400 = 180 + 5 \times 44$$

$$708 = 400 + 7 \times 44$$

$$1104 = 708 + 9 \times 44$$

$$1588 = 1104 + 11 \times 44$$

$$\therefore \text{Next term} = 1588$$

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