

Quiz Date: 23rd February 2020

Directions (1-5): What will come in the place of the question mark (?) in the following number series?

Q1. 18, 55, 167, 504, ?, 4553

- (a) 1216
- (b) 1516
- (c) 1520
- (d) 1816
- (e) 1220

Q2. 279, 294, 324, 369, 429, ?

- (a) 504
- (b) 520
- (c) 564
- (d) 604
- (e) 524

Q3. 10, 26, 50, 110, 320, ?

- (a) 825
- (b) 1245
- (c) 1065
- (d) 1265
- (e) 1625

Q4. 286, 142, ?, 34, 16, 7

- (a) 54
- (b) 70
- (c) 60
- (d) 64
- (e) 50

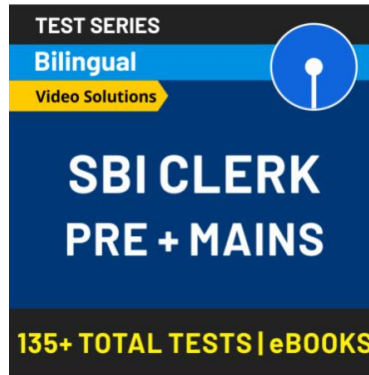
Q5. 200, 320, 464, 613, 786, 964, ?

- (a) 1284
- (b) 1066
- (c) 1166
- (d) 1612
- (e) 1264



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Directions (6-10): What should come in place of question mark (?) in the following questions?

Q6. $\frac{187}{357} \times (42)^2 - 220\% \text{ of } 380 = 25\% \text{ of } ?$

- (a) 330
- (b) 358
- (c) 342
- (d) 352
- (e) 362

Q7. $44 \times 46 - 160\% \text{ of } 950 = \sqrt{441} \times ?$

- (a) 14
- (b) 24
- (c) 18
- (d) 28
- (e) 26

Q8. $2744 - 1418 + 1756 - 1956 = ? + 986$

- (a) 110
- (b) 120
- (c) 140
- (d) 150
- (e) 180

Q9. $77\% \text{ of } 150 + 37.5\% \text{ of } 260 = ?\% \text{ of } 284$

- (a) 75
- (b) 65
- (c) 55
- (d) 45
- (e) 85

Q10. $7\frac{1}{6} + 9\frac{2}{3} - 4\frac{1}{2} = ? - 5\frac{5}{6} + 6\frac{1}{2} + 3\frac{1}{6}$

- (a) 8
- (b) $8\frac{1}{2}$
- (c) $8\frac{1}{3}$

(d) $8\frac{3}{4}$
(e) $8\frac{2}{3}$

Directions (11-15): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer

- (a) if $x > y$
(b) if $x \geq y$
(c) if $x < y$
(d) if $x \leq y$
(e) if $x = y$ or no relation can be established between x and y .

Q11. I. $x^2 - 13x + 40 = 0$
II. $2y^2 - y - 15 = 0$

Q12. I. $5x^2 + 17x + 6 = 0$
II. $2y^2 + 11y + 12 = 0$

Q13. I. $7x^2 - 19x + 10 = 0$
II. $8y^2 + 2y - 3 = 0$

Q14. I. $x^2 - 8x + 15 = 0$
II. $y^2 - 3y + 2 = 0$

Q15. I. $3x^2 - 7x + 4 = 0$
II. $2y^2 - 9y + 10 = 0$

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Solutions

S1. Ans.(b)

Sol.

Pattern is

$$18 \times 3 + 1 = 55$$

$$55 \times 3 + 2 = 167$$

$$167 \times 3 + 3 = 504$$

$$504 \times 3 + 4 = 1516$$

English Medium

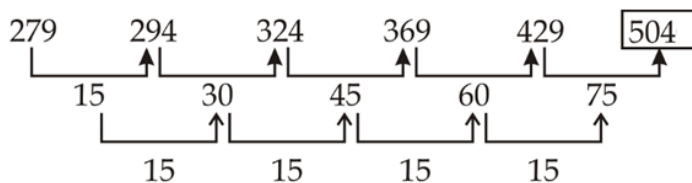
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S2. Ans.(a)

Sol.

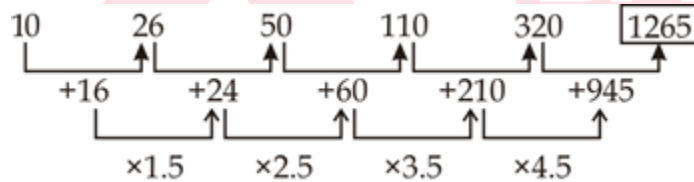
Pattern is



S3. Ans.(d)

Sol.

Pattern is



S4. Ans.(b)

Sol.

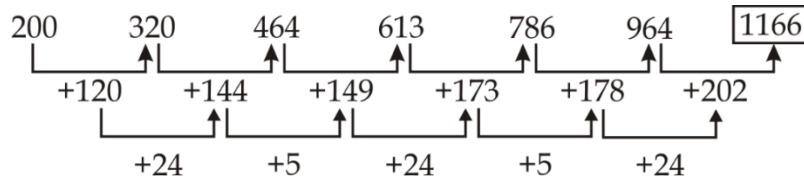
Pattern is

$$\frac{286}{2} - 1 = 142, \frac{142}{2} - 1 = 70, \frac{70}{2} - 1 = 34, \frac{34}{2} - 1 = 16$$

S5. Ans.(c)

Sol.

Pattern is



S6. Ans.(d)

Sol.

$$\frac{187}{357} \times (42)^2 - 22 \times 38 = \frac{?}{4}$$

$$\frac{11}{21} \times 42 \times 42 - 22 \times 38 = \frac{?}{4}$$

$$22(42 - 38) \times 4 = ?$$

$$? = 352$$

S7. Ans.(b)

Sol.

$$44 \times 46 - 160\% \text{ of } 950 = 21 \times ?$$

$$2024 - 1520 = 21 \times ?$$

$$? = \frac{504}{21} = 24$$

S8. Ans.(c)

Sol.

$$? = 1126 - 986 = 140$$

S9. Ans.(a)

Sol.

$$77\% \times 150 + 37.5\% \times 260 = ?\% \times 284$$

$$115.5 + 97.5 = ?\% \times 284$$

$$\frac{213}{284} \times 100 = ?$$

$$? = 75$$

S10. Ans.(b)

Sol.

$$? = (7 + 9 - 4 + 5 - 6 - 3) + \left(\frac{1}{6} + \frac{2}{3} - \frac{1}{2} + \frac{5}{6} - \frac{1}{2} - \frac{1}{6}\right)$$

$$= 8 + \frac{1}{2} = 8\frac{1}{2}$$

S11. Ans.(a)

Sol.

$$\text{I. } x^2 - 13x + 40 = 0$$

$$x^2 - 5x - 8x + 40 = 0$$

$$x(x - 5) - 8(x - 5) = 0$$

$$x = 5, 8$$

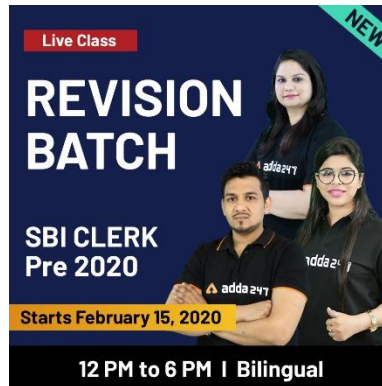
$$\text{II. } 2y^2 - y - 15 = 0$$

$$2y^2 - 6y + 5y - 15 = 0$$

$$2y(y - 3) + 5(y - 3) = 0$$

$$y = 3, -5/2$$

$$x > y$$



S12. Ans.(e)

Sol.

$$\text{I. } 5x^2 + 17x + 6 = 0$$

$$5x^2 + 15x + 2x + 6 = 0$$

$$5x(x + 3) + 2(x + 3) = 0$$

$$x = -3, -\frac{2}{5}$$

$$\text{II. } 2y^2 + 11y + 12 = 0$$

$$2y^2 + 8y + 3y + 12 = 0$$

$$2y(y + 4) + 3(y + 4) = 0$$

$$y = -4, -\frac{3}{2}$$

No relation

S13. Ans.(a)

Sol.

$$7x^2 - 19x + 10 = 0$$

$$7x^2 - 14x - 5x + 10 = 0$$

$$7x(x - 2) - 5(x - 2) = 0$$

$$x = 2, \frac{5}{7}$$

$$\text{II. } 8y^2 + 2y - 3 = 0$$

$$8y^2 + 6y - 4y - 3 = 0$$

$$2y(4y + 3) - 1(4y + 3) = 0$$

$$y = \frac{-3}{4}, \frac{1}{2}$$

$x > y$

S14. Ans.(a)

Sol.

$$\text{I. } x^2 - 8x + 15 = 0$$

$$\Rightarrow x^2 - 5x - 3x + 15 = 0$$

$$\Rightarrow x(x - 5) - 3(x - 5) = 0$$

$$\Rightarrow (x - 3)(x - 5) = 0$$

$$\therefore x = 3 \text{ or } 5$$

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$$\begin{aligned} \text{II. } y^2 - 3y + 2 &= 0 \\ \Rightarrow y^2 - 2y - y + 2 &= 0 \\ \Rightarrow y(y - 2) - 1(y - 2) &= 0 \\ \Rightarrow (y - 1)(y - 2) &= 0 \\ \therefore y &= 1 \text{ or } 2 \\ \therefore x &> y \end{aligned}$$

S15. Ans.(c)

Sol.

$$\begin{aligned} \text{I. } 3x^2 - 7x + 4 &= 0 \\ \Rightarrow 3x^2 - 4x - 3x + 4 &= 0 \\ \Rightarrow (3x - 4)(x - 1) &= 0 \\ x &= \frac{4}{3} \text{ or } 1 \\ \text{II. } 2y^2 - 9y + 10 &= 0 \\ \Rightarrow 2y^2 - 4y - 5y + 10 &= 0 \\ \Rightarrow (2y - 5)(y - 2) &= 0 \\ \Rightarrow y &= \frac{5}{2} \text{ or } 2 \\ y &> x \end{aligned}$$



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