

Quiz Date: 29th June 2020

Directions (1-5): Find the wrong number in the given series, according to given pattern:

Q1. 539, 566, 597, 636, 691, 780

- (a) 691
- (b) 780
- (c) 566
- (d) 539
- (e) 636

Q2. 6, 14, 59, 299, 1799, 12599

- (a) 14
- (b) 299
- (c) 1799
- (d) 59
- (e) 6

Q3. 7, 27, 237, 279, 783, 858

- (a) 27
- (b) 237
- (c) 279
- (d) 858
- (e) 783

Q4. 37, 150, 306, 511, 763, 1062

- (a) 150
- (b) 1062
- (c) 306
- (d) 763
- (e) 511

Q5. 4, 2, 3, 6, 16, 70

- (a) 6
- (b) 2
- (c) 3
- (d) 70
- (e) 16

Directions (6- 15): In the following questions, two equations numbered I and II are given. You have to solve both equations and give answer among the following options.

I. $x^2 - 5x + 6 = 0$

II. $y^2 - 4y + 4 = 0$

Q6.

- (a) if $x > y$

- (b) if $x < y$
 (c) if $x \geq y$
 (d) if $x \leq y$
 (e) $x = y$ or relation cannot be established between x and y

$$\text{I. } 2x^2 - 7x + 6 = 0$$

$$\text{Q7. II. } 15y^6 = 960$$

- (a) if $x > y$
 (b) if $x < y$
 (c) if $x \geq y$
 (d) if $x \leq y$
 (e) $x = y$ or relation cannot be established between x and y



$$\text{I. } \frac{4}{x\sqrt{x}} + \frac{12}{x\sqrt{x}} = \sqrt{x}$$

$$\text{Q8. II. } y^2 - 13y + 36 = 0$$

- (a) if $x > y$
 (b) if $x < y$
 (c) if $x \geq y$
 (d) if $x \leq y$
 (e) $x = y$ or relation cannot be established between x and y

$$\text{I. } 4x^2 + 18x - 10 = 0$$

$$\text{II. } y^{\frac{2}{5}} - \frac{25}{y^{\frac{2}{5}}} = 0$$

- Q9.
 (a) if $x > y$
 (b) if $x < y$
 (c) if $x \geq y$
 (d) if $x \leq y$
 (e) $x = y$ or relation cannot be established between x and y

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I. $\sqrt[3]{343x} + \sqrt{169} = 0$

II. $49y^2 - 182y + 169 = 0$

Q10.

- (a) if $x > y$
- (b) if $x < y$
- (c) if $x \geq y$
- (d) if $x \leq y$
- (e) $x = y$ or relation cannot be established between x and y

I. $2x^2 - x - 231 = 0$

II. $2y^2 + 43y + 231 = 0$

Q11.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

I. $55x^2 - 495x + 1100 = 0$

II. $5y^2 + 10y - 120 = 0$

Q12.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

I. $9x^2 - 94.5x + 243 = 0$

II. $4.5y^2 - 13.5y - 486 = 0$

Q13.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

I. $x^2 - 87x - 270 = 0$

II. $7y^2 - 11y - 18 = 0$

Q14.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

$$\text{I. } x^2 - 19x + 84 = 0$$

$$\text{II. } y^2 - 25y + 156 = 0$$

Q15.

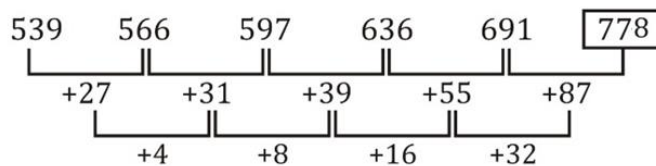
(a) if $x > y$ (b) if $x \geq y$ (c) if $x < y$ (d) if $x \leq y$ (e) if $x = y$ or the relationship cannot be established.

Solutions

S1. Ans.(b)

Sol.

Pattern of series is —



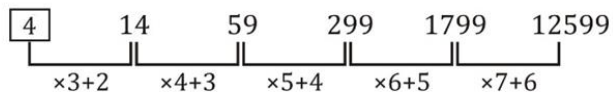
Wrong number = 780

Right number $\rightarrow 691 + 87 = 778$

S2. Ans.(e)

Sol.

Pattern of series is —

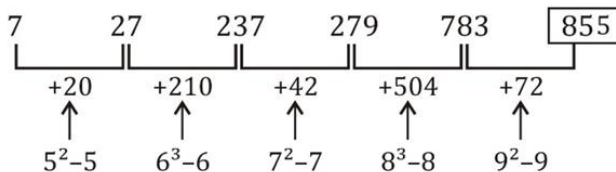


So wrong number = 6

Right number = $\frac{14-2}{3} = 4$

S3. Ans.(d)

Sol.



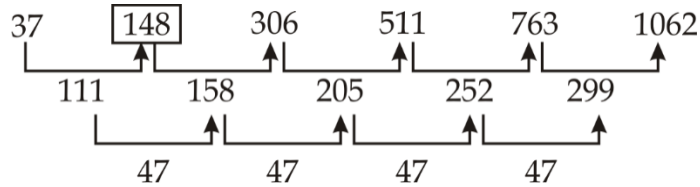
Wrong number is —858

Right number = $783 + (9^2 - 9) = 855$

S4. Ans.(a)

Sol.

Pattern is —

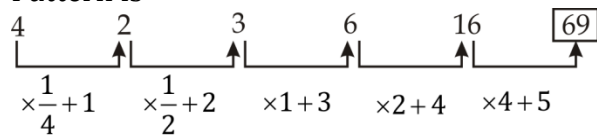


Wrong number is — 150

S5. Ans.(d)

Sol.

Pattern is —



Wrong number = 70



S6. Ans.(c)

Sol.

I. $x^2 - 5x + 6 = 0$

$(x - 3)(x - 2) = 0$

$\Rightarrow x = 3, 2$

II. $y^2 - 4y + 4 = 0$

$y = 2, 2$

$x \geq y$

S7. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } & 2x^2 - 7x + 6 = 0 \\ & \Rightarrow 2x^2 - 4x - 3x + 6 = 0 \\ & \Rightarrow (2x - 3)(x - 2) = 0 \\ & \Rightarrow x = 2, \frac{3}{2} \\ \text{II. } & y^6 = 64 \\ & y = \pm 2 \\ & \text{No relation} \end{aligned}$$

S8. Ans.(d)

Sol.

$$\begin{aligned} \text{I. } & x^2 = 16 \\ & \Rightarrow x = \pm 4 \\ \text{II. } & y^2 - 13y + 36 = 0 \\ & \Rightarrow (y - 4)(y - 9) = 0 \\ & \Rightarrow y = 4, 9 \\ & y \geq x \end{aligned}$$

S9. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } & 4x^2 + 18x - 10 = 0 \\ & 2x^2 + 9x - 5 = 0 \\ & \Rightarrow 2x^2 + 10x - x - 5 = 0 \\ & \Rightarrow (x + 5)(2x - 1) = 0 \\ & \Rightarrow x = -5, \frac{1}{2} \\ \text{II. } & y^{\frac{2}{5}} - \frac{25}{y^{\frac{3}{5}}} = 0 \\ & y^2 = 25 \\ & \Rightarrow y = \pm 5 \\ & \text{No relation} \end{aligned}$$

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S10. Ans.(b)

Sol.

$$\begin{aligned} \text{I. } & 7x + 13 = 0 \\ & \Rightarrow x = -\frac{13}{7} \\ \text{II. } & (7y - 13)^2 = 0 \\ & \Rightarrow y = \frac{13}{7} \\ & y > x \end{aligned}$$

S11. Ans.(b)

Sol.

$$I. 2x^2 - x - 231 = 0$$

$$\Rightarrow 2x^2 - 22x + 21x - 231 = 0$$

$$\Rightarrow 2x(x - 11) + 21(x - 11) = 0$$

$$\Rightarrow (x - 11)(2x + 21) = 0$$

$$\Rightarrow x = 11, \frac{-21}{2}$$

$$II. 2y^2 + 43y + 231 = 0$$

$$\Rightarrow 2y^2 + 22y + 21y + 231 = 0$$

$$\Rightarrow 2y(y + 11) + 21(y + 11) = 0$$

$$\Rightarrow (y + 11)(2y + 21) = 0$$

$$\Rightarrow y = -11, \frac{-21}{2}$$

$$x \geq y$$



S12. Ans.(b)

Sol.

$$I. 55x^2 - 495x + 1100 = 0$$

$$x^2 - 9x + 20 = 0$$

$$\Rightarrow x^2 - 5x - 4x + 20 = 0$$

$$\Rightarrow (x - 5)(x - 4) = 0$$

$$\Rightarrow x = 5, 4$$

$$II. 5y^2 + 10y - 120 = 0$$

$$\Rightarrow y^2 + 2y - 24 = 0$$

$$\Rightarrow y^2 + 6y - 4y - 24 = 0$$

$$\Rightarrow (y + 6)(y - 4) = 0$$

$$\Rightarrow y = 4, -6$$

$$x \geq y$$

S13. Ans.(e)

Sol.

$$\text{I. } 9x^2 - 94.5x + 243 = 0$$

$$\Rightarrow x^2 - 10.5x + 27 = 0$$

$$\Rightarrow x^2 - 6x - 4.5x + 27 = 0$$

$$\Rightarrow (x - 6)(x - 4.5) = 0$$

$$\Rightarrow x = 6, 4.5$$

$$\text{II. } 4.5y^2 - 13.5y - 486 = 0$$

$$\Rightarrow y^2 - 3y - 108 = 0$$

$$\Rightarrow y^2 - 12y + 9y - 108 = 0$$

$$\Rightarrow (y - 12)(y + 9) = 0$$

$$\Rightarrow y = 12, -19$$

No relation

S14. Ans.(e)

Sol.

$$\text{I. } x^2 - 87x - 270 = 0$$

$$\Rightarrow x^2 - 90x + 3x - 270 = 0$$

$$\Rightarrow x(x - 90) + 3(x - 90) = 0$$

$$\Rightarrow (x - 90)(x + 3) = 0$$

$$\Rightarrow x = 90, -3$$

$$\text{II. } 7y^2 - 11y - 18 = 0$$

$$\Rightarrow 7y^2 - 18y + 7y - 18 = 0$$

$$\Rightarrow y(7y - 18) + 1(7y - 18) = 0$$

$$\Rightarrow (7y - 18)(y + 1) = 0$$

$$\Rightarrow y = -1, \frac{18}{7}$$

No relation

S15. Ans.(d)

Sol.

$$\text{I. } x^2 - 19x + 84 = 0$$

$$\Rightarrow x^2 - 12x - 7x + 84 = 0$$

$$\Rightarrow (x - 12)(x - 7) = 0$$

$$\Rightarrow x = 12, 7$$

$$\text{II. } y^2 - 25y + 156 = 0$$

$$\Rightarrow y^2 - 13y - 12y + 156 = 0$$

$$\Rightarrow (y - 13)(y - 12) = 0$$

$$\Rightarrow y = 13, 12$$

$$y \geq x$$



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