

Course: RRB MAINS

Subject: Wrong series and Quadratic

Time: 12 Minutes

Published Date: 29th September 2020

Directions (1-10): निम्नलिखित संख्या श्रृंखला में गलत पद ज्ञात कीजिए:

Q1. 3980, 3380, 2870, 2432, 2050, 1720, 1400

- (a) 3380
- (b) 3980
- (c) 1400
- (d) 1720
- (e) 2050

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q2. 4, 6, 14, 51, 220, 1125, 6786

- (a) 6
- (b) 4
- (c) 14
- (d) 1125
- (e) 6786

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q3. 268, 267, 275, 248, 312, 190, 403

- (a) 268
- (b) 267
- (c) 190
- (d) 403
- (e) 248

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q4. 66, 32, 32, 48, 24, 60, 20

- (a) 24

- (b) 32
- (c) 60
- (d) 66
- (e) 20

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q5. 325, 331, 343, 363, 393, 440, 491

- (a) 491
- (b) 393
- (c) 331
- (d) 325
- (e) 440

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q6. 2675, 2415, 2162, 1923, 1700, 1495, 1310

- (a) None of the given number is wrong
- (b) 2675
- (c) 1495
- (d) 1310
- (e) 1923

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q7. 960, 998, 922, 1036, 884, 956, 846

- (a) 956
- (b) 884
- (c) 922
- (d) 998
- (e) 960

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q8. 138, 164, 198, 236, 282, 340, 402

- (a) 164
- (b) 198
- (c) 282
- (d) None of the given number is wrong
- (e) 402

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q9. 512, 524, 536, 544, 556, 580, 640

- (a) 512
- (b) 536
- (c) 556
- (d) 640
- (e) 524

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Q10. 144, 74, 74, 111, 222, 555, 1665

- (a) 1665
- (b) 222
- (c) 144
- (d) 74
- (e) None of the given number is wrong

L1Difficulty 3

QTags Wrong Series

QCreator AYUSH PANDEY

Directions (11-15): इनमें से प्रत्येक प्रश्न में, दो समीकरण (I) और (II) दिए गए हैं। दोनों समीकरणों को हल करें और उत्तर दीजिए-

(a) यदि $x > y$

(b) यदि $x \geq y$

(c) यदि $x < y$

(d) यदि $x \leq y$

(e) यदि $x = y$ या x और y के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

Q11. (i) $3x^2 - 17x + 20 = 0$

(ii) $5y^2 - 28y + 15 = 0$

L1Difficulty 3

QTags Quadratic Inequalities

QCreator AYUSH PANDEY

Q12. (i) $6x^2 = 11x - 4$

(ii) $2y^2 = 15y + 8$

L1Difficulty 3

QTags Quadratic Inequalities

QCreator AYUSH PANDEY

Q13. (i) $2(x - 3)^2 = (x - 3)$

(ii) $5y^2 + 6y = -1$

L1Difficulty 3

QTags Quadratic Inequalities

QCreator AYUSH PANDEY

Q14. (i) $7x^2 + 61x + 40 = 0$

(ii) $5y^2 - 13y - 28 = 0$

L1Difficulty 3

QTags Quadratic Inequalities

QCreator AYUSH PANDEY

Q15. (i) $x^2 - 11x + 24 = 0$

(ii) $2y^2 - 9y + 9 = 0$

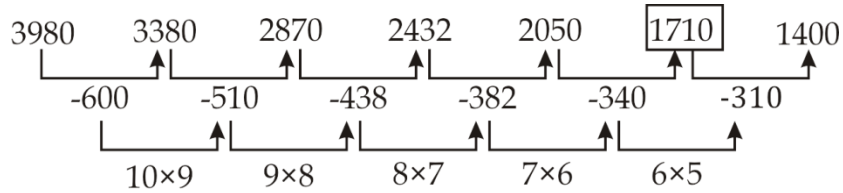
L1Difficulty 3

QTags Quadratic Inequalities

QCreator AYUSH PANDEY

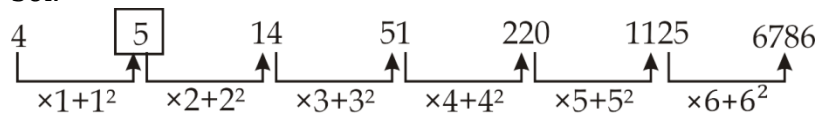
S1. Ans.(d)

Sol.



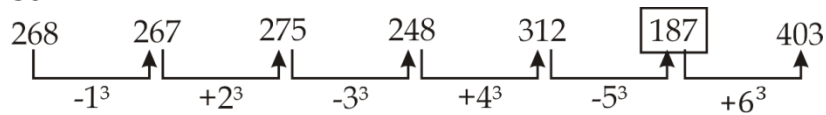
S2. Ans.(a)

Sol.



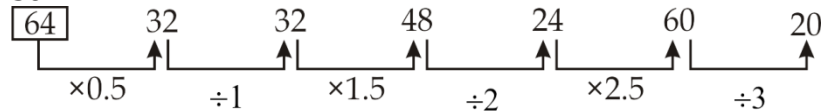
S3. Ans.(c)

Sol.



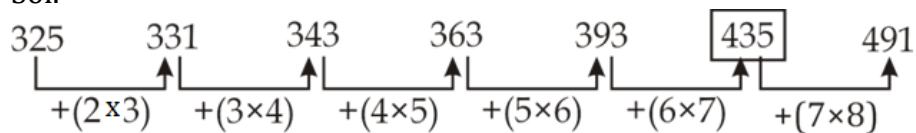
S4. Ans.(d)

Sol.



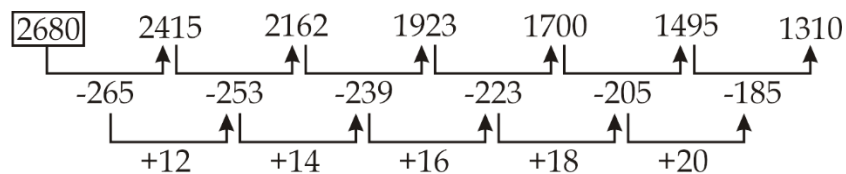
S5. Ans.(e)

Sol.



S6. Ans.(b)

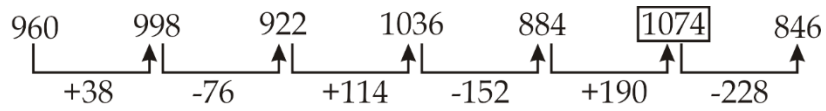
Sol.



Wrong no. is 2675

S7. Ans.(a)

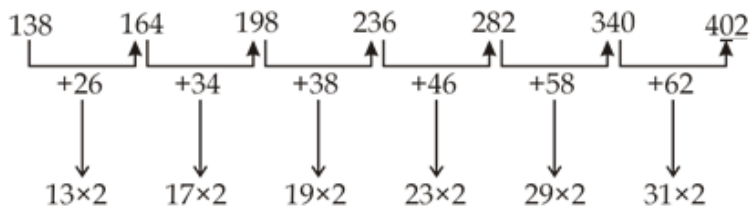
Sol.



Wrong no. is 956

S8. Ans.(d)

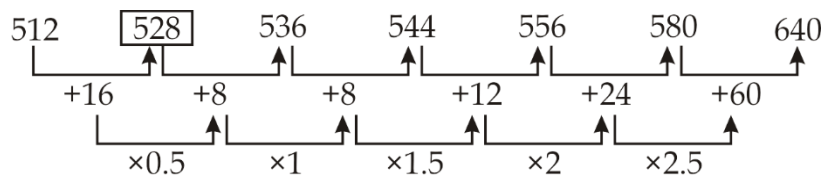
Sol.



No number is wrong in this series

S9. Ans.(e)

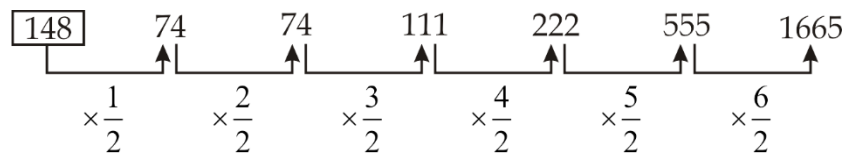
Sol.



Wrong number is 524

S10. Ans.(c)

Sol.



Wrong number is 144.

S11. Ans.(e)

Sol.

I. $3x^2 - 17x + 20 = 0$

$$3x^2 - 12x - 5x + 20 = 0$$

$$3x(x - 4) - 5(x - 4) = 0$$

$$x = 4, \frac{5}{3}$$

II. $5y^2 - 28y + 15 = 0$

$$5y^2 - 25y - 3y + 15 = 0$$

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

$$y = 5, \frac{3}{5}$$

∴ No relation

S12. Ans.(e)

Sol.

I. $6x^2 - 11x + 4 = 0$

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

$$2x(3x - 4) - 1(3x - 4) = 0$$

$$x = \frac{4}{3}, \frac{1}{2}$$

II. $2y^2 - 15y - 8 = 0$

$$2y^2 - 16y + y - 8 = 0$$

$$2y(y - 8) + 1(y - 8) = 0$$

$$y = 8, \frac{-1}{2}$$

∴ No relation

S13. Ans.(a)

Sol.

I. $2(x^2 - 6x + 9) = x - 3$

$$2x^2 - 12x + 18 - x + 3 = 0$$

$$2x^2 - 13x + 21 = 0$$

$$2x^2 - 6x - 7x + 21 = 0$$

$$2x(x - 3) - 7(x - 3) = 0$$

$$x = 3, \frac{7}{2}$$

II. $5y^2 + 6y + 1 = 0$

$$5y^2 + 5y + y + 1 = 0$$

$$5y(y + 1) + 1(y + 1) = 0$$

$$y = -1, \frac{-1}{5}$$

$$x > y$$

S14. Ans.(e)

Sol.

I. $7x^2 + 61x + 40 = 0$

$$7x^2 + 56x + 5x + 40 = 0$$

$$7x(x + 8) + 5(x + 8) = 0$$

$$x = -8, \frac{-5}{7}$$

II. $5y^2 - 13y - 28 = 0$

$$5y^2 - 20y + 7y - 28 = 0$$

$$5y(y - 4) + 7(y - 4) = 0$$

$$y = 4, \frac{-7}{5}$$

\therefore No relation

S15. Ans.(b)

Sol.

I. $x^2 - 11x + 24 = 0$

$$\Rightarrow x^2 - 8x - 3x + 24 = 0$$

$$\Rightarrow x(x - 8) - 3(x - 8) = 0$$

$$\Rightarrow (x - 3)(x - 8) = 0$$

$$\therefore x = 3 \text{ or } 8$$

II. $2y^2 - 9y + 9 = 0$

$$\Rightarrow 2y^2 - 3y - 6y + 9 = 0$$

$$\Rightarrow y(2y - 3) - 3(2y - 3) = 0$$

$$\Rightarrow (2y - 3)(y - 3) = 0$$

$$\therefore y = \frac{3}{2} \text{ or } 3$$

$$x \geq y$$