

Course: RBI Assistant Mains

Subject: Missing Series and Simplification

Time: 15 Minutes

Published Date: 30th July 2020

Directions (1-5): निम्नलिखित प्रश्नों में प्रश्नवाचक चिह्न (?) के स्थान पर क्या मान आना चाहिए-

Q1. 180 का 35% + $18^2 = (27)^{\frac{5}{3}} + ?^2$

- (a) 16
- (b) 14
- (c) 8
- (d) 12
- (e) 18

L1Difficulty 3

QTagsSimplification

QCreatorDeepak Rohilla

Q2. $\frac{323}{357} \times 441 - 15 \times 21 = ?$

- (a) 84
- (b) 63
- (c) 42
- (d) 21
- (e) 105

L1Difficulty 3

QTagsSimplification

QCreatorDeepak Rohilla

Q3. $7\frac{4}{5} - 3\frac{2}{3} + 4\frac{8}{15} = \frac{234}{?}$

- (a) 9
- (b) 18
- (c) 27
- (d) 54
- (e) 81

L1Difficulty 3

QTagsSimplification

QCreatorDeepak Rohilla

Q4. $?^{\frac{2}{3}} = 150$ का 64% + $7 \times 3 - 9^2$

- (a) 27
- (b) 343
- (c) 125
- (d) 64

(e) 216

L1Difficulty 3

QTagsSimplification

QCreatorDeepak Rohilla

Q5. $? \times 4 - 40^2 = 14^2 - 36 \times 44$

(a) 45

(b) 51

(c) 53

(d) 55

(e) 57

L1Difficulty 3

QTagsSimplification

QCreatorDeepak Rohilla

Directions (6-15): निम्नलिखित संख्या श्रृंखला में प्रश्नवाचक चिह्न (?) के स्थान पर क्या मान आएगा-

Q6. 1130, 1164, 1232, 1334, 1470, ?

(a) 1674

(b) 1640

(c) 1606

(d) 1572

(e) 1623

L1Difficulty 3

QTagsMISSING SERIES Quant

QCreatorDeepak Rohilla

Q7. 353, 54, 380, 81, 444, 145, 569, ?, 785

(a) 209

(b) 361

(c) 270

(d) 226

(e) 488

L1Difficulty 3

QTagsMISSING SERIES Quant

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Q8. 2, 6, 21, 88, 445, ?

(a) 3122

(b) 2230

(c) 2766

(d) 2676

(e) 3568

L1Difficulty 3

QTagsMISSING SERIES Quant
QCreatorDeepak Rohilla

Q9. 5, 6, 9.5, 15, 18.5, 33, 32, ?

- (a) 51
- (b) 68
- (c) 58
- (d) 60
- (e) 63

L1Difficulty 3

QTagsMISSING SERIES Quant

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Q10. 12, 6, 9, 22.5, 78.75, ?

- (a) 345.375
- (b) 354.375
- (c) 374.535
- (d) 375.435
- (e) 343.755

L1Difficulty 3

QTagsMISSING SERIES Quant

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Q11. 23, 29, 17, 35, ?, 41

- (a) 13
- (b) 11
- (c) 12
- (d) 18
- (e) 21

L1Difficulty 3

QTagsMISSING SERIES Quant

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Q12. 6, 10, 17, 28.5, 46.75, ?

- (a) 77.125
- (b) 76.125
- (c) 75.125
- (d) 75.25
- (e) 72.75

L1Difficulty 3

QTagsMISSING SERIES Quant

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Q13. 670, 894, 1150, 1438, ?

- (a) 1758
- (b) 1594

(c) 1930

(d) 1290

(e) 1225

L1Difficulty 3

QTagsMISSING SERIES Quant

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Q14. 3, 5, 19, 101, ?, 6445

(a) 710

(b) 712

(c) 714

(d) 715

(e) 725

L1Difficulty 3

QTagsMISSING SERIES Quant

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Q15. 7, 8, 16, 12, 41, 28, ?

(a) 90

(b) 85

(c) 92

(d) 86

(e) 84

L1Difficulty 3

QTagsMISSING SERIES Quant

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Solutions

S1. Ans.(d)

Sol.

$$\begin{aligned}\Rightarrow 35\% \text{ of } 180 + 18^2 &= (27)^{\frac{5}{3}} + ?^2 \\ \Rightarrow 63 + 324 &= 243 + ?^2 \\ \Rightarrow 387 - 243 &= ?^2 \\ \Rightarrow ?^2 &= 144 \\ \Rightarrow ? &= 12\end{aligned}$$

S2. Ans.(a)

Sol.

$$\begin{aligned}\frac{323}{357} \times 441 - 15 \times 21 &=? \\ \Rightarrow \frac{19 \times 17}{17 \times 21} \times 441 - 15 \times 21 &=? \\ \Rightarrow ? = 19 \times 21 - 15 \times 21 &= 4 \times 21 = 84\end{aligned}$$

S3. Ans.(c)

Sol.

$$\begin{aligned}7\frac{4}{5} - 3\frac{2}{3} + 4\frac{8}{15} &= \frac{234}{?} \\8 + \frac{12 - 10 + 8}{15} &= \frac{234}{?} \\8 + \frac{2}{3} &= \frac{234}{?} \\ \frac{26}{3} &= \frac{234}{?} \\ \Rightarrow ? &= 27\end{aligned}$$

S4. Ans.(e)

Sol.

$$\begin{aligned}?\frac{2}{3} &= 64\% \text{ of } 150 + 7 \times 3 - 9^2 \\?\frac{2}{3} &= 96 + 21 - 81 \\?\frac{2}{3} &= 36 \\ \Rightarrow ? &= 36^{\frac{3}{2}} = 216\end{aligned}$$

S5. Ans.(c)

Sol.

$$\begin{aligned}?\times 4 - 40^2 &= 14^2 - 36 \times 44 \\?\times 4 &= 196 + 40^2 - (40 - 4) \times (40 + 4) \\?\times 4 &= 196 + 40^2 - 40^2 + 4^2 = 212 \\ ? &= \frac{212}{4} = 53\end{aligned}$$

S6. Ans.(b)

Sol.

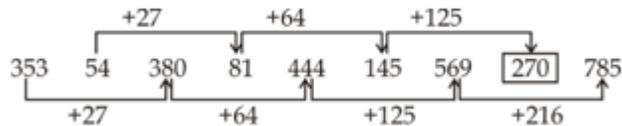
The pattern is $+17 \times 2, +17 \times 4, +17 \times 6, +17 \times 8, +17 \times 10 \dots$

$$\therefore ? = 1470 + 17 \times 10$$

$$= 1640$$

S7. Ans.(c)

Series is



Sol.

S8. Ans.(d)

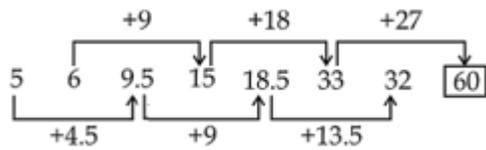
Sol.

Pattern is $\times 2+2, \times 3+3, \times 4+4, \times 5+5, \times 6+6$

$$\therefore ? = 445 \times 6 + 6$$

$$= 2676$$

S9. Ans.(d)



Sol.

S10. Ans.(b)

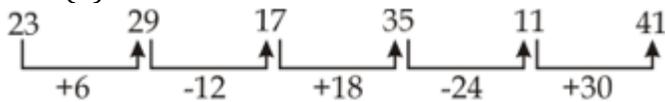
Sol.

Pattern is $\times 0.5, \times 1.5, \times 2.5, \times 3.5, \times 4.5$

$$\therefore ? = 78.75 \times 4.5$$

$$= 354.375$$

S11. Ans.(b)



Sol.

S12. Ans.(c)

$$6 \times 1.5 + 1 = 10$$

$$10 \times 1.5 + 2 = 17$$

$$17 \times 1.5 + 3 = 28.5$$

$$28.5 \times 1.5 + 4 = 46.75$$

$$46.75 \times 1.5 + 5 = 75.125$$

Sol.

S13. Ans.(a)

$$26^2 - 6 = 670$$

$$30^2 - 6 = 894$$

$$34^2 - 6 = 1150$$

$$38^2 - 6 = 1438$$

$$42^2 - 6 = 1758$$

Sol.

S14. Ans.(d)

$$3 \times 1 + 2 = 5$$

$$5 \times 3 + 4 = 19$$

$$19 \times 5 + 6 = 101$$

$$101 \times 7 + 8 = \boxed{715}$$

$$715 \times 9 + 10 = 6445$$

Sol.

S15. Ans.(a)

