

Course: IBPS RRB Prelims

Subject: Simplification and Missing Series

Time: 10 Minutes

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Directions (1-9): निम्नलिखित प्रश्नों में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या मान आएगा-

Q1. $\frac{\sqrt[3]{1.728} \times \sqrt[2]{24.01} \times \sqrt[5]{243}}{\sqrt[3]{729} \times \sqrt[2]{1.96} \times (\sqrt[7]{1})^{79}} = ?$

- (a) 1
- (b) 1.2
- (c) 1.8
- (d) 1.5
- (e) 1.4

L1Difficulty 2

QTagSimplification

QCreatorDeepak Rohilla

Q2. 4913 का $\frac{100}{17}$ % - 1296 का $16\frac{2}{3}$ % - 343 का 14.28% = ?

- (a) 20
- (b) 22
- (c) 24
- (d) 26
- (e) 30

L1Difficulty 2

QTagSimplification

QCreatorDeepak Rohilla

Q3. 4107 का $2\frac{7}{37}$ - 60800 का 12.5% - $(\sqrt{11})^6 = ? \times \frac{3}{2}$

- (a) 20
- (b) 30
- (c) 35
- (d) 40
- (e) 45

L1Difficulty 2

QTagSimplification

QCreatorDeepak Rohilla

Q4. $\frac{1600}{13}$ का 39% + $\sqrt{4096} = ?^2 - \sqrt[3]{729}$

- (a) 11
- (b) 12
- (c) 15

(d)19

(e)17

L1Difficulty 2

QTagsSimplification

QCreatorDeepak Rohilla

Q5. $(1024)^{0.2} \times (2)^5 + \frac{12}{786} \times 131 = 11^2 + ?^2$

(a)3

(b)5

(c)7

(d)1

(e)9

L1Difficulty 2

QTagsSimplification

QCreatorDeepak Rohilla

Q6. $? \times 5 \frac{6}{13} \times 2 \frac{2}{71} = 1200$ का 12%

(a)12

(b)15

(c)13

(d)17

(e)19

L1Difficulty 2

QTagsSimplification

QCreatorDeepak Rohilla

Q7. 144 का 75% +? = 400 का 40%

(a)50

(b)52

(c)58

(d)55

(e)54

L1Difficulty 2

QTagsSimplification

QCreatorDeepak Rohilla

Q8. $\frac{?}{13} = 17 \times \frac{78}{289} \times \frac{169}{2197} \times 34$

(a)126

(b)158

(c)187

(d)193

(e)156

L1Difficulty 2

QTagsSimplification

QCreatorDeepak Rohilla

Q9. $64^{3.5} \times 2^5 \times ? = 4^{15}$

- (a) 8
- (b) 16
- (c) 12
- (d) 32
- (e) 64

L1Difficulty 2

QTagsSimplification

QCreatorDeepak Rohilla

Directions (10-15): निम्नलिखित संख्या श्रृंखला में प्रश्नवाचक चिह्न (?) के स्थान पर क्या मान आएगा-

Q10. 840, 719, 638, 589, ?, 555

- (a) 572
- (b) 564
- (c) 578
- (d) 570
- (e) 560

L1Difficulty 2

QTagsMISSING SERIES Quant

QCreatorDeepak Rohilla

Q11. 112, 128, 176, 188, 224, ?

- (a) 233
- (b) 323
- (c) 293
- (d) 312
- (e) 248

L1Difficulty 2

QTagsMISSING SERIES Quant

QCreatorDeepak Rohilla

Q12. ?, 14, 31, 97, 393, 1971

- (a) 10
- (b) 6
- (c) 8
- (d) 4
- (e) 12

L1Difficulty 2

QTagsMISSING SERIES Quant

QCreatorDeepak Rohilla

Q13. 14, 116, 239, 404, 632, ?

- (a) 848

(b) 926

(c) 789

(d) 944

(e) 824

L1Difficulty 2

QTagsMISSING SERIES Quant

QCreatorDeepak Rohilla

Q14. ?, 513, 537, 752, 800, 1311

(a) 350

(b) 375

(c) 450

(d) 425

(e) 275

L1Difficulty 2

QTagsMISSING SERIES Quant

QCreatorDeepak Rohilla

Q15. 24, 1354, 2081, 2421, ?, 2564

(a) 2542

(b) 2540

(c) 2548

(d) 2556

(e) 2560

L1Difficulty 2

QTagsMISSING SERIES Quant

QCreatorDeepak Rohilla

Solutions

S1. Ans.(e)

$$\text{Sol. } \frac{\sqrt[3]{1.728} \times \sqrt[2]{24.01} \times \sqrt[5]{243}}{\sqrt[3]{729} \times \sqrt[2]{1.96} \times (\sqrt[7]{1})^{79}} = ?$$

$$= \frac{1.2 \times 4.9 \times 3}{9 \times 1.4 \times 1}$$

$$= 1.4$$

S2. Ans(c)

$$\text{Sol. } \frac{100}{17} \% \text{ of } 4913 - 16\frac{2}{3} \% \text{ of } 1296 - 14.28 \% \text{ of } 343 = ?$$

$$? = \frac{4913}{17} - \frac{1296}{6} - \frac{343}{7}$$

$$? = 289 - 216 - 49$$

$$? = 24$$

S3. Ans(d)

Sol. $2\frac{7}{37}$ of 4107 - 12.5% of 60800 - $(\sqrt{11})^6 = ? \times \frac{3}{2}$

$$? \times \frac{3}{2} = \frac{81}{37} \times 4107 - \frac{60800}{8} - 1331$$

$$? = 60 \times \frac{2}{3}$$

$$? = 40$$

S4. Ans(a)

Sol. 39% of $\frac{1600}{13} + \sqrt{4096} = ?^2 - \sqrt[3]{729}$

$$?^2 = \frac{39 \times 16}{13} + 64 + 9$$

$$?^2 = 48 + 64 + 9$$

$$? = 11$$

S5. Ans.(a)

Sol. $(1024)^{0.2} \times (2^2)^{2.5} + \frac{12}{786} \times 131 = 11^2 + ?^2$

$$(4^5)^{0.2} \times (2^2)^{2.5} + \frac{12}{6} = 11^2 + ?^2$$

$$?^2 = 9$$

$$? = 3$$

S6. Ans(c)

Sol.

$$? \times 5\frac{6}{13} \times 2\frac{2}{71} = 12\% \text{ of } 1200$$

$$? \times \frac{71}{13} \times \frac{144}{71} = 144$$

$$? = 13$$

S7. Ans.(b)

Sol. 75% of 144 + ? = 40% of 400

$$\frac{3}{4} \times 144 + ? = 160$$

$$? = 52$$

S8. Ans(e)

Sol.

$$\frac{?}{13} = 17 \times \frac{78}{289} \times \frac{169}{2197} \times 34$$

$$? = 13 \times 17 \times \frac{78}{289} \times \frac{1}{13} \times 34$$

$$? = 156$$

S9. Ans(b)

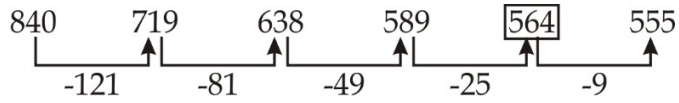
Sol. $64^{3.5} \times 2^5 \times ? = 4^{15}$

$$(2^6)^{3.5} \times 2^5 \times ? = 2^{30}$$

$$? = 16$$

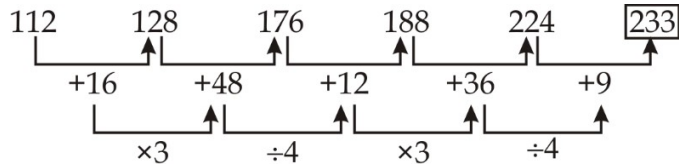
S10. Ans.(b)

Sol.



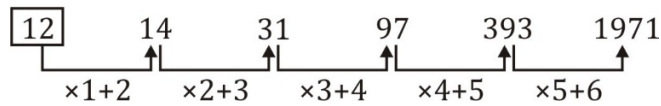
S11. Ans.(a)

Sol.



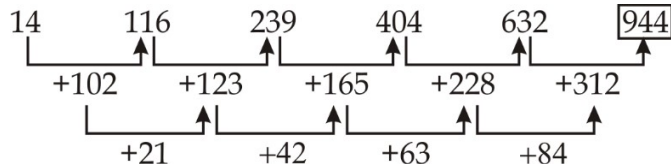
S12. Ans.(e)

Sol.



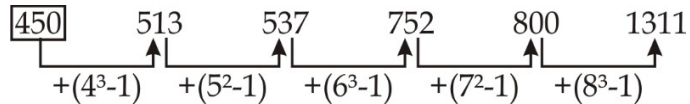
S13. Ans.(d)

Sol.



S14. Ans.(c)

Sol.



S15. Ans(a)

Sol.

Pattern of series -

$$24 + (11^3 - 1) = 1354$$

$$1354 + (9^3 - 2) = 2081$$

$$2081 + (7^3 - 3) = 2421$$

$$? = 2421 + (5^3 - 4) = 2542$$

$$2542 + (3^3 - 5) = 2564$$