

Course: IBPS RRB Prelims

Subject: Simplification

Time: 10 Minutes

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Directions (1-5): निम्नलिखित प्रश्नों में "x" के स्थान पर क्या मान आएगा-

Q1. $24\% \text{ of } 480 + 30\% \text{ of } 270 + 48\% \text{ of } 10 = x$

- (a) 190
- (b) 195
- (c) 198
- (d) 201
- (e) 205

L1Difficulty 3

QTagsSimplification

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Q2. $\sqrt{361} \times \frac{4}{38} \text{ of } 26 + 1024 \times 5 \div 4 = x$

- (a) 1261
- (b) 1332
- (c) 1164
- (d) 1020
- (e) 1380

L1Difficulty 3

QTagsSimplification

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Q3. $x\% \text{ of } 360 \div 72 + \frac{2}{7} \text{ of } 315 = 28\% \text{ of } 625$

- (a) 1600
- (b) 1700
- (c) 1800
- (d) 1750
- (e) 1850

L1Difficulty 3

QTagsSimplification

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Q4. $841 \div 116 \times 4 + 256 \sqrt{x} = 1082 \div 2$

- (a) 4
- (b) 9
- (c) 16
- (d) 25

(e) 36

L1Difficulty 3

QTagsSimplification

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Q5. $68 \times 24 - 2\% \text{ of } 1600 = x^2$

(a) 36

(b) 38

(c) 32

(d) 29

(e) 40

L1Difficulty 3

QTagsSimplification

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Directions (6-15): निम्नलिखित समीकरणों में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या मान आना चाहिए-

Q6. $28\% \text{ of } 85 + 13.2 = ?$

(a) 35

(b) 37

(c) 39

(d) 41

(e) 43

L1Difficulty 3

QTagsSimplification

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Q7. $\frac{7}{5} \text{ of } 58 + \frac{3}{8} \text{ of } 139.2 = ?$

(a) 133.4

(b) 137.2

(c) 127.8

(d) 131.6

(e) None of these

L1Difficulty 3

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Q8. $\sqrt[3]{17576} + \sqrt[3]{4096} = ?$

(a) 42

(b) 44

(c) 46

(d) 48

(e) 50

L1Difficulty 3

QTagsSimplification

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Q9. $84368 + 65466 - 72009 - 13964 = ?$

- (a) 61481
- (b) 62921
- (c) 63861
- (d) 64241
- (e) None of these

L1Difficulty 3

QTagsSimplification

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Q10. $12\% \text{ of } 555 + 15\% \text{ of } 666 = ?$

- (a) 166.5
- (b) 167.5
- (c) 168.5
- (d) 169.5
- (e) 170.5

L1Difficulty 3

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Q11. $572 \div 26 \times 12 - 200 = (2)^?$

- (a) 5
- (b) 6
- (c) 7
- (d) 8
- (e) 10

L1Difficulty 3

QTagsSimplification

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Q12. $4\frac{1}{2} - 2\frac{5}{6} = ? - 1\frac{7}{12}$

- (a) $3\frac{1}{4}$
- (b) $3\frac{5}{12}$
- (c) $2\frac{7}{12}$
- (d) $3\frac{3}{4}$
- (e) $5\frac{2}{3}$

L1Difficulty 3

QTagsSimplification

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Q13. 36% of 245 – 40% of 210 = 10 –?

- (a) 4.2
- (b) 6.8
- (c) 4.9
- (d) 5.6
- (e) 5.8

L1Difficulty 3

QTagsSimplification

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Q14. $4345 + 5625 + 7125 - 3345 = ?$

- (a) 11,750
- (b) 13,750
- (c) 12,750
- (d) 10,350
- (e) 14,450

L1Difficulty 3

QTagsSimplification

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Q15. $(\sqrt{80 \div 5 \times 8 + (17 \times 5) - 17}) \div \sqrt[3]{343} = \sqrt[4]{?}$

- (a) 36
- (b) 32
- (c) 25
- (d) 16
- (e) 49

L1Difficulty 3

QTagsSimplification

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Solutions

S1. Ans.(d)

Sol.

$$\frac{24}{100} \times 480 + \frac{30}{100} \times 270 + \frac{48}{100} \times 10 = x$$

$$x = 24 \times 4.8 + 3 \times 27 + 4.8$$

$$x = 115.2 + 81 + 4.8$$

$$x = 201$$

S2. Ans.(b)

Sol.

$$x = 19 \times \frac{4}{38} \times 26 + \frac{1024 \times 5}{4}$$

$$x = 4 \times 13 + 1280$$

$$x = 1332$$

S3. Ans.(b)

Sol.

$$\frac{x}{100} \times \frac{360}{72} + \frac{2}{7} \times 315 = \frac{28}{100} \times 625$$

$$\frac{x}{20} + 2 \times 45 = \frac{7}{25} \times 625$$

$$\frac{x}{20} + 90 = 175$$

$$\frac{x}{20} = 85$$

$$x = 1700$$

S4. Ans.(a)

Sol.

$$\frac{841}{116} \times 4 + 256\sqrt{x} = 541$$

$$\frac{841}{29} + 256\sqrt{x} = 541$$

$$256\sqrt{x} = 541 - 29$$

$$256\sqrt{x} = 512$$

$$\sqrt{x} = 2$$

$$x = 4$$

S5. Ans.(e)

Sol.

$$68 \times 24 - \frac{2}{100} \times 1600 = x^2$$

$$x^2 = 1632 - 32$$

$$x = 40$$

S6. Ans (b)

Sol. $23.8 + 13.2 = 37$

S7. Ans (a)

Sol. $81.2 + 52.2 = 133.4$

S8. Ans (a)

Sol. $26 + 16 = 42$

S9. Ans (c)

Sol. $149834 - 85973 = 63861$

S10. Ans (a)

$$\text{Sol. } 66.6 + 99.9 = 166.5$$

S11. Ans.(b)

$$\text{Sol. } 2^? = 572 \div 26 = 22 \times 12 = 264 - 200 = 64 = 2^6$$

$$\text{Or, } ? = 6$$

S12. Ans.(a)

$$\begin{aligned}\text{Sol. } ? &= (4 + 1 - 2) + \left(\frac{1}{2} + \frac{7}{12} - \frac{5}{6}\right) \\ &= 3 + \left(\frac{6 + 7 - 10}{12}\right) = 3\frac{1}{4}\end{aligned}$$

S13. Ans.(e)

$$\text{Sol. } 36\% \text{ of } 245 = (40 - 4) \% \text{ of } 245$$

$$= \frac{2}{5} \times 245 - \frac{4 \times 245}{100} = 98 - 9.8 = 88.2$$

$$40\% \text{ of } 210 = \frac{2}{5} \times 210 = 84$$

$$\text{Difference} = 88.2 - 84 = 4.2$$

$$? = 10 - 4.2 = 5.8$$

S14. Ans.(b)

$$\text{Sol. } ? = 4345 + 5625 + 7125 - 3345$$

$$? = 17095 - 3345 = 13,750$$

S15. Ans.(d)

$$\text{Sol. } \sqrt[4]{?} = \sqrt{196} \div 7$$

$$= 14 \div 7 = 2$$

$$\Rightarrow ? = 2^4 = 16$$