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The Question Bank

Simplification Questions for IBPS Clerk Pre, LIC Asst., SBI Clerk Pre and IBPS RRB Exams.

Simplification Quiz 15

Directions: What value should come in place of Question mark (?) in the following question?

1. $(474552)^{1/3} - (6084)^{1/2} + 68 - 7.8 = ?$

- A. 68.2 B. 60.2 C. 64.9 D. 70.2 E. 82.4

2. $27 \frac{13}{30} + 23 \frac{14}{25} + 28 \frac{12}{15} - 17 \frac{21}{45} + 0.85 - 0.37 = ?$

- A. $62 \frac{121}{150}$ B. $62 \frac{142}{79}$ C. $63 \frac{194}{67}$ D. $59 \frac{189}{59}$ E. $57 \frac{167}{43}$

3. $\sqrt{294} + \sqrt{726} + \sqrt{1176} + \sqrt{486} - \sqrt{600} = ?$

- A. $32\sqrt{6}$ B. $34\sqrt{4}$ C. $31\sqrt{6}$ D. $31\sqrt{4}$ E. $35\sqrt{4}$

4. $(561441)^{1/3} = 9 \times \frac{\sqrt{4096}}{8} + \frac{\sqrt{6561}}{9} - 16 = ?$

- A. 62 B. 65 C. 64 D. 63 E. 61

5. $16^{4.2} \times 256^{2.1} \times 14^2 \times 196^{3.2} = ?$

- A. $(224)^{8.4}$ B. $(326)^{7.4}$ C. $(324)^{8.4}$ D. $(340)^{7.4}$ E. $(240)^{8.4}$

6. $5 \frac{3}{11} + 3 \frac{4}{3} - 6 \frac{5}{12} = ?$

- A. $3 \frac{23}{66}$ B. $3 \frac{23}{132}$ C. $4 \frac{23}{132}$ D. $3 \frac{25}{132}$ E. None of these

7. $28.57\% \text{ of } 3780 = \sqrt{676} \times ? \times \sqrt[3]{512} \div 104$

- A. 650 B. 450 C. 360 D. 510 E. None of these

8. $(569.72 + 113.68 - 183.4) \times \sqrt[3]{8} = ?^2 - 24$

- A. 32 B. 35 C. 36 D. 40 E. None of these

9. $6.3 \times 9.8 \div \sqrt{196} \times 0.15 + 1.331 = ?^3 + 0.6615$

- A. 0.11 B. 1.1 C. 1.01 D. 0.21 E. 1.21

10. $22.5\% \text{ of } 754 - 17.5\% \text{ of } 884 = ? + \sqrt{676} - 19.65$

- A. 7.4 B. 5.9 C. 6.8 D. 8.6 E. None of these

Correct Answers:

1	2	3	4	5	6	7	8	9	10
B	A	C	B	A	D	E	A	B	D

Explanations:

1. $?$ = $(474552)^{1/3} - (6084)^{1/2} + 68 - 7.8$
 $?$ = $(78^3)^{1/3} - (78^2)^{1/2} + 68 - 7.8$
 $= 78 - 78 + 68 - 7.8 = 60.2$
Hence, option B is correct.

2.

$$?$$
 = $27\frac{13}{30} + 23\frac{14}{25} + 28\frac{12}{15} - 17\frac{21}{45} + 0.85 - 0.37$
$$?$$
 = $(27 + 23 + 28 - 17) + \left(\frac{13}{30} + \frac{14}{25} + \frac{12}{15} - \frac{21}{45}\right) + 0.48$
$$?$$
 = $61 + \left(\frac{195 + 252 + 360 - 210}{450}\right) + \frac{48}{100}$
$$= 61 + \frac{597}{450} + \frac{48}{100} = 61 + \frac{1194 + 432}{900}$$
$$= 61 + \frac{1626}{900} = (61 + 1) + \frac{726}{900}$$
$$= 62 + \frac{121}{150} = 62\frac{121}{150}$$

Hence, option A is correct.

3. $?$ = $\sqrt{294} + \sqrt{726} + \sqrt{1176} + \sqrt{486} - \sqrt{600}$
 $?$ = $\sqrt{6 \times 49} + \sqrt{6 \times 121} + \sqrt{6 \times 196} + \sqrt{6 \times 81} - \sqrt{6 \times 100}$
 $?$ = $7\sqrt{6} + 11\sqrt{6} + 14\sqrt{6} + 9\sqrt{6} - 10\sqrt{6}$
 $= \sqrt{6}(7 + 11 + 14 + 9 - 10) = 31\sqrt{6}$
Hence, option C is correct.

4. $?$ = $(561441)^{1/3} = 9 \times \frac{\sqrt{4096}}{8} + \frac{\sqrt{6561}}{9} - 16$
 $= 81 \div 9 \times \frac{64}{8} + \frac{81}{9} - 16$
 $= 9 \times 8 + 9 - 16 = 65$

Hence, option B is correct.

$$\begin{aligned}
 5. \quad ? &= 16^{4.2} \times 256^{2.1} \times 14^2 \times 196^{3.2} \\
 &= 16^{4.2} \times 16^{(2 \times 2.1)} \times 14^2 \times 14^{(2 \times 3.2)} \\
 &= 16^{4.2+4.2} \times 14^{2+6.4} \\
 &= 16^{8.4} \times 14^{8.4} = (16 \times 14)^{8.4} = 224^{8.4}
 \end{aligned}$$

Hence, option A is correct.

6.

$$5\frac{3}{11} + 3\frac{4}{3} - 6\frac{5}{12} = ?$$

$$? = (5 + 3 - 6) + \frac{3}{11} + \frac{4}{3} - \frac{5}{12}$$

$$? = 2 + \frac{(36 + 176 - 55)}{132}$$

$$? = 2 + \frac{157}{132}$$

$$? = 2 + 1 + \frac{25}{132}$$

$$? = 3\frac{25}{132}$$

Hence, option D is correct.

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$$7. \quad 28.57\% \text{ of } 3780 = \sqrt{676} \times ? \times \sqrt[3]{512} \div 104$$

$$3780 \times \frac{2}{7} = 26 \times ? \times \frac{8}{104}$$

$$540 \times 2 = ? \times 2$$

$$? = 540$$

Hence, option E is correct.

$$8. \quad (569.72 + 113.68 - 183.4) \times \sqrt[3]{8} = ?^2 - 24$$

$$(683.4 - 183.4) \times 2 = ?^2 - 24$$

$$500 \times 2 + 24 = ?^2$$

$$?^2 = 1000 + 24$$

$$?^2 = 1024$$

$$? = 32$$

Hence, option A is correct.

9. $6.3 \times 9.8 \div \sqrt{196} \times 0.15 + 1.331 = ?^3 + 0.6615$

$$\frac{63 \times 98 \times 15}{14 \times 10000} + 1.331 - 0.6615 = ?^3$$

$$0.6615 + 1.331 - 0.6615 = ?^3$$

$$?^3 = 1.331$$

$$? = 1.1$$

Hence, option B is correct.

10. $22.5\% \text{ of } 754 - 17.5\% \text{ of } 884 = ? + \sqrt{676} - 19.65$ $45\% \text{ of } 377 - 35\% \text{ of } 442 = ? + 26 - 19.65$

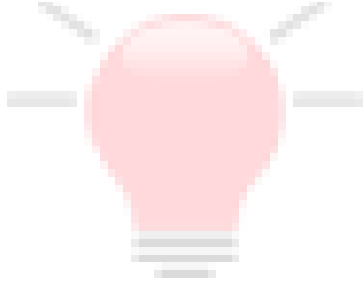
$$\frac{(3393 - 3094)}{20} = ? + 6.35$$

$$\frac{299}{20} = ? + 6.35$$

$$? = 14.95 - 6.35$$

$$? = 8.6$$

Hence, option D is correct



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