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The Question Bank

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

Simplification Quiz 18

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

1. $(845\% \text{ of } 955) \times 5.96 = ?$

- A. 46420 B. 44620 C. 48420 D. 52200 E. 54520

2. $(780.85 + 59.98) \div 29.02 = ?$

- A. 29 B. 27 C. 19 D. 21 E. 11

3. $35\% \text{ of } ? \times \frac{3}{4} = 3984.75$

- A. 12720 B. 18480 C. 15180 D. 17460 E. 13220

4. $8\frac{4}{5} \times 5\frac{7}{9} \times 9\frac{2}{3} = ?$

- A. 490 B. 590 C. 540 D. 460 E. 520

5. $11.92^2 + 16.01^2 = ?^2 \times 3.85^2$

- A. 15 B. 2 C. 4 D. 5 E. 12

6. $16^{6.5} \times 16^{12.25} = 16^{21-?}$

- A. 2.20 B. 2.25 C. 2.5 D. 3 E. None of these

7. $8765 - 3246 + 6783 = 4516 + ?$

- A. 6786 B. 7786 C. 7876 D. 8776 E. None of these

8. $8\frac{2}{3} + 9\frac{7}{12} + 12\frac{3}{4} - 8\frac{1}{2} = ?$

- A. $25\frac{3}{5}$ B. $22\frac{1}{2}$ C. $23\frac{3}{4}$ D. $22\frac{3}{5}$ E. None of these

9. $\frac{5}{9} \text{ of } 1638 \text{ of } \frac{3}{7} \text{ of } \frac{144}{13} = ?$

- A. 4320 B. 4420 C. 4240 D. 4230 E. None of these

10. $\sqrt{2209} + \sqrt{361} - \sqrt{1296} = ?$

- A. 34 B. 30 C. 36 D. 26 E. None of these

Correct Answers:

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

Explanations:**1.**

$$? = \left(845 \times \frac{955}{100} \right) \times 6$$

$$= 8069.75 \times 6$$

$$= 48418.5 \approx 48420$$

Hence, option C is correct.

2. $(780.85 + 59.98) \div 29.02 = ?$

$$\approx (781 + 60) \div 29 = \frac{841}{29} = 29$$

Hence, option A is correct.

3.

Given, 35% of ? $\times \frac{3}{4} = 3984.75$

$$? = \frac{3984.75 \times 100 \times 4}{35 \times 3} \approx 15180$$

Hence, option C is correct.

4.

Given, $8\frac{4}{5} \times 5\frac{7}{9} \times 9\frac{2}{3}$

$$? = \frac{44}{5} \times \frac{52}{9} \times \frac{29}{3} = 491 \approx 490.$$

Hence, option A is correct.

5. $11.92^2 + 16.01^2 = ?^2 \times 3.85^2$

$$?^2 \approx \frac{12^2 + 16^2}{4^2} = \frac{144 + 256}{16} = \frac{400}{16} = 25$$

$$\Rightarrow ?^2 \approx 5^2 \Rightarrow ? \approx 5$$

Hence, option D is correct.

6. As the base on both the sides LHS and RHS are equal, we can compare the indices.

$$6.5 + 12.25 = 21 - x$$

$$18.75 = 21 - x$$

$$\text{Therefore, } x = 21 - 18.75$$

$$\Rightarrow 2.25$$

Hence, option B is correct.

7. $8765 - 3246 + 6783 = 4516 + ?$

$$? = 8765 - 3246 + 6783 - 4516$$

$$? = 7786$$

Hence, option B is correct.

8.

$$8\frac{2}{3} + 9\frac{7}{12} + 12\frac{3}{4} - 8\frac{1}{2} = ?$$

$$? = (8 + 9 + 12 - 8) + \left(\frac{2}{3} + \frac{7}{12} + \frac{3}{4} - \frac{1}{2}\right)$$

$$? = 21 + \frac{8 + 7 + 9 - 6}{12} = 21 + \frac{18}{12}$$

$$? = 21 + \frac{3}{2} = 22 + \frac{1}{2} = 22\frac{1}{2}$$

Hence, option B is correct.

9.

$$\frac{5}{9} \text{ of } 1638 \text{ of } \frac{3}{7} \text{ of } \frac{144}{13} = ?$$

$$? = \frac{5}{9} \times 1638 \times \frac{3}{7} \times \frac{144}{13} = 4320$$

Hence, option A is correct

10. $\sqrt{2209} + \sqrt{361} - \sqrt{1296} = ?$

$$? = 47 + 19 - 36 = 30$$

Hence, option B is correct.



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