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The Question Bank

Simplification Questions for LIC AAO Pre, SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

Simplification Quiz 37

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

1. $5\frac{11}{13} \times ? \frac{7}{12} \times 2\frac{13}{19} + 18\%$ of 552 = 218.36

A. 7 B. 6 C. 5 D. 9 E. None of these

2. $8^{4.2} \times 64^{6.4} \times 88^{2.25} \times 11^{?} = 88^{19.25}$

A. 7.25 B. 7 C. 18 D. 6 E. None of these

3. $\frac{1}{2}$ of 52846 + 35% of ? – 85% of 42320 = 2547

A. 34560 B. 35560 C. 32560 D. 38560 E. None of these

4. $\frac{(4^3 \times 14 + 4060)}{12}$ = 7021 ÷ ?

A. 19 B. 7 C. 27 D. 17 E. None of these

5. $\left(4\frac{3}{4} \times 10\frac{2}{3} \times 4\frac{3}{8}\right) \div ? \frac{17}{21} = 9$

A. 23 B. 28 C. 24 D. 22 E. None of these

6. (15.01% of 52.02)% of 449.99 + 42.01 ÷ 2.99 × 12.03 = ?

A. 402 B. 143 C. 203 D. 278 E. 293

7. $(3.99)^3 + (12.01)^3 + ? = 502.11 \times 3.99$

A. 291 B. 216 C. 121 D. 345 E. 399

8. $4\frac{3}{4} \times 5\frac{11}{17} \times 25\frac{1}{2} = ?$

A. 456 B. 665 C. 684 D. 760 E. None of these

9. $12\frac{3}{5} \times 6\frac{3}{7} \times$ (?% of 125) = 34 × 25

A. 100% B. 50% C. 15% D. 25% E. None of these

10. $\frac{1}{3}$ of 4569 + 12% of ? + 21% of ? – 53^2 = 199

A. 4400 B. 4500 C. 5500 D. 5400 E. None of these

Correct Answers:

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

Explanations:

1.

$5\frac{11}{13} \times ?\frac{7}{12} \times 2\frac{13}{19} + 18\% \text{ of } 552 = 218.36$

$\frac{76}{13} \times \frac{51}{19} \times ?\frac{7}{12} + 99.36 = 218.36$

$\frac{76}{13} \times \frac{51}{19} \times \left(?\frac{7}{12}\right) = 119$

$\frac{4 \times 3}{13} \times \left(?\frac{7}{12}\right) = 7$

$\left(?\frac{7}{12}\right) = \frac{91}{12} = 7\frac{7}{12}$

? = 7

Hence, option A is correct.

2. $8^{4.2} \times 8^{6.4} \times 8^{6.4} \times 8^{2.25} \times 11^{2.25} \times 11^{?} = 8^{19.25} \times 11^{19.25}$

$8^{19.25} \times 11^{2.25} \times 11^{?} = 8^{19.25} \times 11^{19.25}$

$11^{?} = 11^{17}$

? = 17

Hence, option E is correct.

3.

$\frac{1}{2}$ of 52846 + 35% of ? – 85% of 42320 = 2547

26423 + 35% of ? – 35972 = 2547

35% of ? = 2547 + 35972 – 26423 = 12096

$? = 12096 \times \frac{100}{35} = 34560$

Hence, option A is correct.

4.

$\underline{(4^3 \times 14 + 4060)} = 7021 \div ?$

12

$\frac{(896 + 4060)}{12} = 413 = \frac{7021}{?}$

$? = \frac{7021}{413} = 17$

Hence, option D is correct.

5.

$\left(4\frac{3}{4} \times 10\frac{2}{3} \times 4\frac{3}{8}\right) \div ?\frac{17}{27} = 9$

$\left(\frac{19}{4} \times \frac{32}{3} \times \frac{35}{8}\right) \div ?\frac{17}{27} = 9$

$\frac{19 \times 35}{3 \times 9} = \frac{665}{27} = 24\frac{17}{27} = ?\frac{17}{27}$

$? = 24$

Hence, option C is correct.

6. (15% of 52)% of 450 + 42 ÷ 3 ×12

7.8% of 450 + 14 × 12

35.1 + 168 = 203

Hence, option C is correct.

7. $4^3 + 12^3 + ? = 502 \times 4$

64 + 1728 + ? = 2008

? = 2008 – 1792 = 216

? = 216

Hence, option B is correct.

8.

$\frac{19}{4} \times \frac{96}{17} \times \frac{51}{2} = 19 \times 12 \times 3 = 684$

Hence, option C is correct.

9.

$\frac{63}{5} \times \frac{45}{7} \times (?\% \text{ of } 125) = 81 \times 25$

$81 \times (?\% \text{ of } 125) = 81 \times 25$

$? = 20$

Hence, option E is correct.

10. $1523 + 33\% \text{ of } ? = 199 + 2809 = 3008$

$33\% \text{ of } ? = 3008 - 1523 = 1485$

$? = \frac{1485 \times 100}{33} = 4500$

Hence, option B is correct.