



Bipin Nambiar
(SBI PO 2018)



Shiraz Khan
(SBI Clerk 2018)



Kuldeep Yadav
(SBI PO 2018)



Rajat Saxena
(IBPS Clerk 2018)



Anupam Tyagi
(IBPS PO 2018)

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The Question Bank

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

Simplification Quiz 42

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

1. $\frac{3}{13} \times \frac{325}{3^{-3}} \times ? = 25 \times 103 \times 1.54$

- A. 125 B. 375 C. 62.5 D. 112.5 E. None of these

2. $(13456 - 712) \div 27^2 = ? \div 3 \div 3 \div 3 \div 2$

- A. 472 B. 236 C. 832 D. 944 E. None of these

3. $0.16 \times 55 \times 180 + ?^2 = 12^3$

- A. 484 B. ± 12 C. ± 22 D. 32 E. None of these

4. $1.25 \times 844 + 0.5 \times 432 + ? = 2500$

- A. 1229 B. 1341 C. 1339 D. 1489 E. None of these

5. $75\% \text{ of } 12^2 + ? = 40\% \text{ of } 600$

- A. 145 B. 132 C. 112 D. 158 E. None of these

6. $(\sqrt{?})^6 + (\sqrt{30})^4 = 2628$

- A. 144 B. 22 C. 484 D. 12 E. None of these

7. $27^{2/3} + 216^{1/3} + ? = 125^{2/3}$

- A. 120 B. -120 C. 10 D. 110 E. None of these

8. $7\frac{2}{3} \text{ of } 15 + 9\frac{1}{6} \text{ of } 30 = 0.5 \times ?$

- A. 710 B. 920 C. 780 D. 690 E. None of these

9. $29 \times ? = 1856 \div 4 \div 2$

- A. 4.4 B. 5.4 C. 6.6 D. 9.4 E. None of these

10. $6587 - 2134 + 3125 = ? \times 5^3 \times 64 \div 2^3$

- A. 75.87 B. 74.67 C. 7.467 D. 7.578 E. None of these

Correct Answers:

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

Explanations:

1.

$$\frac{3}{13} \times \frac{325}{3^{-3}} \times ? = 25 \times 10^3 \times 1.5^4$$

$$\frac{3}{13} \times 25 \times 13 \times 27 \times ? = 25 \times 1000 \times \frac{3^4}{2^4}$$

$$3^4 \times ? = 1000 \times \frac{3^4}{16}$$

$$? = \frac{1000}{16}$$

$$? = 62.5$$

Hence, option C is correct.

2. $(13456 - 712) \div 27^2 = ? \div 3 \div 3 \div 3 \div 2$

$$\frac{12744}{27 \times 27} = \frac{?}{27 \times 2}$$

$$? = 472 \times 2 = 944$$

Hence, option D is correct.

3. $0.16 \times 55 \times 180 + ?^2 = 12^3$

$$\frac{16}{100} \times 55 \times 180 + ?^2 = 1728$$

$$1584 + ?^2 = 1728$$

$$?^2 = 1728 - 1584 = 144 = 12^2$$

$$? = \pm 12$$

Hence, option B is correct.

4. $1.25 \times 844 + 0.5 \times 432 + ? = 2500$

$$\frac{5}{4} \times 844 + \frac{1}{2} \times 432 + ? = 2500$$

$$? = 2500 - (5 \times 211) - 216$$

$$? = 2500 - 1271 = 1229$$

Hence, option A is correct.

5. $75\% \text{ of } 12^2 + ? = 40\% \text{ of } 600$

$$\frac{3}{4} \times 144 + ? = \frac{2}{5} \times 600$$

$$? = 240 - 108$$

$$? = 132$$

Hence, option B is correct.

6. $(\sqrt{?})^6 + (\sqrt{30})^4 = 2628$

$$?^3 + 30^2 = 2628$$

$$?^3 = 2628 - 900 = 1728$$

$$? = 12$$

Hence, option D is correct.

7. $27^{2/3} + 216^{1/3} + ? = 125^{2/3}$

$$3^{3 \times 2/3} + 6^{3 \times 1/3} + ? = 5^{3 \times 2/3}$$

$$9 + 6 + ? = 25$$

$$? = 10$$

Hence, option C is correct.

8.

$$7\frac{2}{3} \text{ of } 15 + 9\frac{1}{6} \text{ of } 30 = 0.5 \times ?$$

$$\frac{23}{3} \times 15 + \frac{55}{6} \times 30 = 0.5 \times ?$$

$$23 \times 5 + 55 \times 5 = 0.5 \times ?$$

$$5(23 + 55) = \frac{5}{10} \times ?$$

$$? = 780$$

Hence, option C is correct.

9. $29 \times ? = 1856 \div 4 \div 2$

$$? = \frac{1856}{8 \times 29} = 8$$

Hence, option E is correct.

10. $6587 - 2134 + 3125 = ? \times 5^3 \times 64 \div 2^3$

$$7578 = ? \times 5 \times 25 \times 8$$

$$7578 = ? \times 1000$$

$$? = 7.578$$

Hence, option D is correct.



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