



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

Simplification Quiz 50

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

1. $5376 \div 24 \times 13 - 703 = ?^2$

- A. 57 B. 47 C. 53 D. 43 E. None of these

2. $4\frac{5}{7} \times 4\frac{2}{3} + ? = 35\% \text{ of } 158$

- A. 23.3 B. 33.3 C. 31.3 D. 19.3 E. None of these

3. $12473 - 1016 - 10137 + 21477 = ? + 8573$

- A. 15124 B. 14224 C. 14624 D. 14424 E. None of these

4. $(0.4)^3 \times 400 \div 4000 \text{ of } (0.4)^2 = ?$

- A. $\frac{1}{100}$ B. $\frac{1}{50}$ C. $\frac{1}{25}$ D. 1 E. None of these

5. $185\% \text{ of } 500 - 46\% \text{ of } 1650 = 4 \times ?$

- A. 42.5 B. 35.5 C. 53.5 D. 41.5 E. None of these

6. $165\% \text{ of } 400 + 85\% \text{ of } 240 = ?\% \text{ of } 1080$

- A. 70 B. 90 C. 80 D. 110 E. 100

7. $24473 - 12016 - 11037 + 22477 = ? + 9473$

- A. 14136 B. 14424 C. 14760 D. 18342 E. 14572

8. $123 \times 8697 \div 223 = ?^2 + 36$

- A. 67 B. 72 C. 85 D. 69 E. 83

9. $13 \times ? \times 6 = 47^2 - \sqrt{625}$

- A. 32 B. 28 C. 36 D. 38 E. None of these

10. $\frac{882}{9} - 7 \times 13 + \sqrt[3]{2197} = ?$

- A. 20 B. 24 C. 27 D. 31 E. None of these

Correct Answers:

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

Explanations:

1. $?^2 = 5376 \div 24 \times 13 - 703$

$$?^2 = 224 \times 13 - 703$$

$$?^2 = 2912 - 703 = 2209$$

$$? = \sqrt{2209} = 47$$

Hence, option B is correct.

2.

$$4\frac{5}{7} \times 4\frac{2}{3} + ? = 35\% \text{ of } 158$$

$$\frac{33}{7} \times \frac{14}{3} + ? = \frac{35}{100} \times 158$$

$$22 + ? = 55.3$$

$$? = 55.3 - 22 = 33.3$$

Hence, option B is correct.

3. $12473 - 1016 - 10137 + 21477 = ? + 8573$

or, $? = 12473 - 1016 - 10137 + 21477 - 8573$

or, $? = 14224$

Hence, option B is correct.

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4. $? = (0.4)^3 \times 400 \div 4000 \text{ of } (0.4)^2$

Applying the BODMAS, we get

$$= (0.4)^3 \times 400 \div (4000 \times 0.4 \times 0.4)$$

$$= \frac{0.4 \times 0.4 \times 0.4 \times 400}{4000 \times 0.4 \times 0.4}$$

$$= \frac{4 \times 4 \times 4 \times 400}{4000 \times 4 \times 4 \times 10}$$

$$= \frac{4}{100} = \frac{2}{50} = \frac{1}{25}$$

Hence, option C is correct.

5. $185\% \text{ of } 500 - 46\% \text{ of } 1650 = 4 \times ?$

$$\Rightarrow 185\% \text{ of } 500 - 46\% \text{ of } 1650 = 4 \times ?$$

$$\Rightarrow (925 - 759) = 4 \times ?$$

$$\Rightarrow 166 = 4 \times ?$$

$$\Rightarrow ? = 41.5$$

Hence, option D is correct.

6.

$$400 \times \frac{165}{100} + \frac{85}{100} \times 240 = \frac{?}{100} \times 1080$$

$$\text{or, } 4 \times 165 + 85 \times 2.4 = 10.8 \times ?$$

$$\text{or, } 660 + 204 = 10.8 \times ?$$

$$\therefore ? = \frac{864 \times 10}{108} = 80$$

Hence, option C is correct.

7. $24473 - 12016 - 11037 + 22477 = ? + 9473$

$$? = 24473 - 12016 - 11037 + 22477 - 9473$$

$$? = 46950 - 32526$$

$$? = 14424$$

Hence, option B is correct.

8. $123 \times 8697 \div 223 = ?^2 + 36$

$$?^2 = 123 \times \frac{8697}{223} - 36$$

$$?^2 = 4797 - 36 = 3481$$

$$\therefore ? = \sqrt{4761} = \sqrt{69 \times 69} = 69$$

Hence, option D is correct.

9. $13 \times ? \times 6 = 47^2 - \sqrt{625}$

or, $78 \times ? = 2209 - 25$

or, $? = 2184 \div 78$

or, $? = 28$

Hence, option B is correct.

10. $\frac{882}{9} - 7 \times 13 + \sqrt[3]{2197} = ?$

$$? = 98 - 91 + 13$$

$$? = 20$$

Hence, option A is correct.

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