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

Simplification Quiz 35

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

1. 61% of 550 – ?% of 250 = 35

- A. 32 B. 28 C. 37 D. 44 E. None of these

2. $5 \times ? = 735 \div 3$

- A. 39 B. 59 C. 43 D. 49 E. 53

3. $\frac{4}{7} \times \frac{9}{14} \div \frac{16}{21} \times ? = 1$

- A. $\frac{27}{56}$ B. $2\frac{4}{27}$ C. $1\frac{9}{27}$ D. $2\frac{2}{27}$ E. None of these

4. 19% of 250 + ? = 2^7

- A. 85.5 B. 75.5 C. 80.5 D. 70.5 E. None of these

5. $(6 \times 6 \times 6 \times 6 \times 6)^5 \times (9 \times 9 \times 9)^5 \div (18 \times 18 \times 18)^3 = 2^{16} \times 3^?$

- A. 36 B. 39 C. 37 D. 41 E. 43

6. 50% of $\left(13\frac{1}{10} + 11\frac{1}{10}\right) = ?$

- A. 16.2 B. 20.1 C. 12.1 D. 6.50 E. None of these

7. $\sqrt{729} \div 45 \times 720 + ? = 30^2$

- A. 512 B. 468 C. 528 D. 498 E. None of these

8. $9\frac{3}{8} \times 7\frac{3}{5} \times ? = 15^2$

- A. $2\frac{2}{19}$ B. $4\frac{6}{19}$ C. $4\frac{1}{19}$ D. $3\frac{3}{19}$ E. None of these

9. 600% of $\sqrt{\frac{180 \times 81}{5}} \times 12 \div 3^{-1} = ?^2$

- A. 108 B. 72 C. 144 D. 96 E. None of these

10. $16\frac{2}{3}\%$ of $(2.8 \times 6 + 5.4 \times 9) = 10^{-1} \times ?$

A. 10.7

B. 107

C. 126

D. 119

E. None of these

Correct Answers:

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

Explanations:

1. 61% of $550 - ?\%$ of $250 = 3^5$

$$335.5 - ? \times \frac{250}{100} = 243$$

$$335.5 - 243 = ? \times 2.5$$

$$? \times 2.5 = 92.5$$

$$? = 92.5 \times \frac{2}{5} = 37$$

Hence, option C is correct.

2. $5 \times ? = 735 \div 3$

$$5 \times ? = 245$$

$$? = \frac{245}{5} = 49$$

Hence, option D is correct.

3.

$$\frac{4}{7} \times \frac{9}{14} \div \frac{16}{21} \times ? = 1$$

$$\frac{4}{7} \times \frac{9}{14} \times \frac{21}{16} \times ? = 1$$

$$? = \frac{14 \times 4}{9 \times 3} = \frac{56}{27} = 2\frac{2}{27}$$

Hence, option D is correct.

4. $19\% \text{ of } 250 + ? = 2^7$

$$19 \times 2.5 + ? = 128$$

$$? = 128 - 47.5 = 80.5$$

Hence, option C is correct.

5. $(6 \times 6 \times 6 \times 6 \times 6)^5 \times (9 \times 9 \times 9)^5 \div (18 \times 18 \times 18)^3 = 2^{16} \times 3^?$

$$6^{5 \times 5} \times \frac{9^{5 \times 3}}{18^{3 \times 3}} = 2^{16} \times 3^?$$

$$\frac{2^{25} \times 3^{25} \times 3^{15} \times 3^{15}}{2^9 \times 3^9 \times 3^9} = 2^{16} \times 3^?$$

$$3^{(25 + 15 + 15 - 9 - 9)} = 3^?$$

$$? = 25 + 15 + 15 - 9 - 9 = 37$$

Hence, option C is correct.

6.

$$50\% \text{ of } \left(13 \frac{1}{10} + 11 \frac{1}{10} \right) = ?$$

$$\frac{1}{2} \text{ of } \left(\frac{131}{10} + \frac{111}{10} \right) = ?$$

$$? = \frac{1}{2} \text{ of } (13.1 + 11.1)$$

$$? = \frac{24.2}{2} = 12.1$$

Hence, option C is correct.

7. $\sqrt{729} \div 45 \times 720 + ? = 30^2$

$$\frac{27}{45} \times 720 + ? = 900$$

$$? = 900 - 432 = 468$$

Hence, option B is correct.

8.

$$9\frac{3}{8} \times 7\frac{3}{5} \times ? = 15^2$$

$$\frac{75}{8} \times \frac{38}{5} \times ? = 225$$

$$\frac{15}{4} \times 19 \times ? = 225$$

$$? = \frac{60}{19} = 3\frac{3}{19}$$

Hence, option D is correct.

9. $600\% \text{ of } \sqrt{\frac{180 \times 81}{5}} \times 12 \div 3^{-1} = ?^2$

$$6 \times 6 \times 9 \times 12 \times 3 = ?^2$$

$$? = 3 \times 6 \times 6 = 108$$

Hence, option A is correct.

10.

$$16\frac{2}{3}\% \text{ of } (2.8 \times 6 + 5.4 \times 9) = 10^{-1} \times ?$$

$$\frac{50}{300} \times 6(2.8 + 3 \times 2.7) = \frac{1}{10} \times ?$$

$$\frac{1}{10} \times ? = 8.1 + 2.8$$

$$? = 10 \times 10.9 = 109$$

Hence, option E is correct.



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