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The Question Bank

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

Simplification Quiz 43

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

1. $5\% \text{ of } 5^2 \times 12^2 - 140 = 2 \times ?$

- A. 15 B. 25 C. 20 D. 22 E. None of these

2. $2 \frac{5}{13} \% \text{ of } 5200 + 1 \frac{1}{17} \% \text{ of } 5100 = ?$

- A. 17800 B. 1780 C. 178 D. 17.8 E. None of these

3. $33 \times ? \div 3 = 1.5 \% \text{ of } (2^5 \times 5^5 \times 363)$

- A. 425000 B. 405000 C. 42500 D. 40500 E. None of these

4. $? \% \text{ of } (15360 \div 4) = 2^{11} - 2^9$

- A. 6 B. 60 C. 40 D. 80 E. None of these

5. $325 \div 13 \times \sqrt{784} = 10 \% \text{ of } ?$

- A. 7000 B. 700 C. 1100 D. 900 E. None of these

6. $\sqrt[3]{(?) \times 140} + 260 = 0.4^2 \times 5125$

- A. 4 B. 8 C. 27 D. 64 E. None of these

7. $\sqrt{3136} \times 7^{-2} \div 5^{-5} \times 14 = ?$

- A. 50000 B. 54280 C. 52250 D. 50125 E. None of these

8. $25 \% \text{ of } 624 + ? = 729 - 512$

- A. 61 B. 66 C. 55 D. 51 E. None of these

9. $8 \frac{1}{7} \div \frac{19}{168} \times 167 \frac{1}{3} = (7^2 - 1) \times ?$

- A. 502 B. 604 C. 251 D. 249 E. None of these

10. $\frac{4}{7} \times \frac{9}{14} \div \frac{16}{28} + \frac{4}{3} - ? = 1$

- A. $\frac{43}{42}$ B. $\frac{41}{42}$ C. $\frac{47}{42}$ D. $\frac{37}{42}$ E. None of these

Correct Answers:

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

Explanations:

1. $5\% \text{ of } 5^2 \times 12^2 - 140 = 2 \times ?$

$$\frac{5}{100} \times 25 \times 144 - 140 = 2 \times ?$$

$$\frac{5}{4} \times 144 - 140 = 2 \times ?$$

$$180 - 140 = 40 = 2 \times ?$$

$$? = 20$$

Hence, option C is correct.

2.

$$2\frac{5}{13} \% \text{ of } 5200 + 1\frac{1}{17} \% \text{ of } 5100 = ?$$

$$\frac{31}{1300} \times 5200 + \frac{18}{1700} \times 5100 = ?$$

$$? = 31 \times 4 + 18 \times 3$$

$$? = 124 + 54 = 178$$

Hence, option C is correct.

3. $33 \times ? \div 3 = 1.5 \% \text{ of } (2^5 \times 5^5 \times 363)$

$$11 \times ? = 1.5 \% \text{ of } (10^5 \times 363)$$

$$? = 33 \times 10^5 \times \frac{3}{200}$$

$$? = 33 \times 10^3 \times 1.5$$

$$? = 49500$$

Hence, option E is correct.

4. $?\% \text{ of } (15360 \div 4) = 2^{11} - 2^9$

$$\frac{?}{100} \times 3840 = 2^9 \times (4 - 1)$$

$$\left(\frac{?}{100}\right) \times 3840 = 512 \times 3 = 1536$$

$$? = 1536 \times \frac{100}{384}$$

$$? = 40$$

Hence, option C is correct.

5. $325 \div 13 \times \sqrt{784} = 10\% \text{ of } ?$

$$25 \times 28 = \frac{1}{10} \text{ of } ?$$

$$? = 7000$$

Hence, option A is correct.

6. $\sqrt[3]{(?) \times 140 + 260} = 0.4^2 \times 5125$

$$\sqrt[3]{? \times 140} = 820 - 260$$

$$\sqrt[3]{? \times 140} = 560$$

$$\sqrt[3]{?} = 4$$

$$? = 64$$

Hence, option D is correct.

7. $\sqrt{3136} \times 7^{-2} \div 5^{-5} \times 14 = ?$

$$56 \times \frac{1}{49} \times 5^5 \times 14 = ?$$

$$? = 8 \times 5^5 \times 2$$

$$? = 50000$$

Hence, option A is correct.

8. $25\% \text{ of } 624 + ? = 729 - 512$

$$25 \times \frac{624}{100} + ? = 217$$

$$? = 217 - 156 = 61$$

Hence, option A is correct.

9.

$$8 \frac{1}{7} \div \frac{19}{168} \times 167 \frac{1}{3} = (7^2 - 1) \times ?$$

$$48 \times ? = \frac{57}{7} \times \frac{168}{19} \times \frac{502}{3}$$

$$48 \times ? = 24 \times 502$$

$$? = 251$$

Hence, option C is correct.

10.

$$\frac{4}{7} \times \frac{9}{14} \div \frac{16}{28} + \frac{4}{3} - ? = 1$$

$$\frac{4}{7} \times \frac{9}{14} \times \frac{28}{16} + \frac{4}{3} - 1 = ?$$

$$\frac{9}{14} + \frac{4}{3} - 1 = ?$$

$$\frac{27 + 56 - 42}{42} = ?$$

$$\frac{41}{42} = ?$$

Hence, option B is correct.



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