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The Question Bank

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

Simplification Quiz 45

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

1. $13\frac{2}{3}\%$ of 3300 + 25% of 184 = 40% of ?

- A. 1242.5 B. 1361.5 C. 1124 D. 1220 E. None of these

2. $11\frac{1}{3}$ of 117 + $13\frac{3}{5}$ of 115 = ?

- A. 2890 B. 2676 C. 1852 D. 1658 E. None of these

3. $\frac{12\% \text{ of } 273000}{13\% \text{ of } 42} + \frac{11\% \text{ of } 58500}{13\% \text{ of } 45} = ?$

- A. 61100 B. 71000 C. 6700 D. 7100 E. None of these

4. $8125 \div 13 \div 2\frac{1}{2} \times 102 = ?$

- A. 12500 B. 25000 C. 50000 D. 37500 E. None of these

5. $(2^{-3} + 12.5\% \text{ of } 624) \times 4^4 = 5^3 \times ?$

- A. 3200 B. 32 C. 160 D. 1600 E. None of these

6. $42.32 + 423.4 + 56.28 - 122.2 = ?$

- A. 18.74 B. 128.72 C. 398.2 D. 399.8 E. None of these

7. $45\% \text{ of } 480 + 1\frac{1}{8} \text{ of } 2160 + 2\frac{1}{3} \text{ of } 150 = ?$

- A. 2996 B. 1448 C. 2024 D. 2848 E. None of these

8. $4\frac{1}{3} + 6\frac{1}{5} - 7\frac{1}{2} = \frac{?}{8}$

- A. 28.5 B. 32.2 C. 24.26 D. 26.8 E. None of these

9. $13^2 + 5^3 - 4^4 = 10\% \text{ of } ?$

- A. 420 B. 360 C. 240 D. 300 E. None of these

10. $729^2 \div 6^3 \times 27^8 = 27^{?+6} \div 216$

- A. 6 B. 9 C. 15 D. 5 E. None of these

Correct Answers:

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

Explanations:

1.

$$13\frac{2}{3}\% \text{ of } 3300 + 25\% \text{ of } 184 = 40\% \text{ of } ?$$

$$\frac{41}{300} \times 3300 + \frac{1}{4} \times 184 = 41 \times 11 + 46 = 40\% \text{ of } ?$$

$$451 + 46 = \frac{2}{5} \times ?$$

$$? = 497 \times \frac{5}{2} = 1242.5$$

Hence, option A is correct.

2.

$$11\frac{1}{3} \text{ of } 117 + 13\frac{3}{5} \text{ of } 115 = ?$$

$$? = \frac{34}{3} \times 117 + \frac{68}{5} \times 115$$

$$? = 34 \times 39 + 68 \times 23$$

$$? = 1326 + 1564 = 2890$$

Hence, option A is correct,

3.

$$\frac{12\% \text{ of } 273000}{13\% \text{ of } 42} + \frac{11\% \text{ of } 58500}{13\% \text{ of } 45} = ?$$

$$\frac{12 \times 273000}{100} \times \frac{100}{13 \times 42} + \frac{11 \times 58500}{100} \times \frac{100}{13 \times 45} = ?$$

$$500 \times 12 + 100 \times 11 = 6000 + 1100 = 7100$$

Hence, option D is correct.

4.

$$8125 \div 13 \div 2 \frac{1}{2} \times 10^2 = ?$$

$$\frac{8125}{13} \times \frac{2}{5} \times 100 = ?$$

$$? = 25000$$

Hence, option B is correct.

5. $(2^{-3} + 12.5\% \text{ of } 624) \times 4^4 = 5^3 \times ?$

$$\left(\frac{1}{8} + \frac{1}{8} \times 624\right) \times 256 = 5^3 \times ?$$

$$\frac{625}{8} \times 256 = 125 \times ?$$

$$? = 5 \times 32 = 160$$

Hence, option C is correct.

6. $42.32 + 423.4 + 56.28 - 122.2 = ?$

$$? = 522 - 122.2 = 399.8$$

Hence, option D is correct.

7.

$$45\% \text{ of } 480 + 1 \frac{1}{8} \text{ of } 2160 + 2 \frac{1}{3} \text{ of } 150 = ?$$

$$? = 45 \times \frac{480}{100} + \frac{9}{8} \times 2160 + \frac{7}{3} \times 150$$

$$? = 216 + 270 \times 9 + 7 \times 50$$

$$? = 216 + 2430 + 350$$

$$? = 2996$$

Hence, option A is correct.

8.

$$4\frac{1}{3} + 6\frac{1}{5} - 7\frac{1}{2} = \frac{?}{8}$$

$$\frac{13}{3} + \frac{31}{5} - \frac{15}{2} = \frac{?}{8}$$

$$\frac{130 + 186 - 225}{30} = \frac{?}{8}$$

$$\frac{91}{15} = \frac{?}{4}$$

$$? = \frac{364}{15} = 24.26$$

Hence, option C is correct.

9. $13^2 + 5^3 - 4^4 = 10\%$ of ?

$$169 + 125 - 256 = \frac{1}{10} \times ?$$

$$? = 380$$

Hence, option E is correct.

10. $729^2 \div 6^3 \times 27^8 = 27^{?+6} \div 216$

$$(27^2)^2 \div 6^3 \times 27^8 = 27^{?+6} \div 6^3$$

$$27^{4+8} = 27^{?+6}$$

$$4 + 8 = ? + 6$$

$$? = 12 - 6$$

$$? = 6$$

Hence, option A is correct.



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