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

Simplification Quiz 27

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

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

A. $7\frac{7}{12}$

B. $5\frac{7}{12}$

C. $4\frac{7}{12}$

D. $5\frac{5}{12}$

E. None of these

2. $\sqrt{5041} \% \text{ of } \sqrt{3364} + 57 = ? + 678$

A. 397.28

B. -397.28

C. 579.82

D. -579.82

E. None of these

3. $25\% \text{ of } 30\% \text{ of } 850 + 5 \times 76 = ?$

A. 441.75

B. 443.75

C. 441.57

D. 443.57

E. None of these

4. $\frac{3^5}{81} \times 3^8 \times \frac{9}{27} = 3^? \times 243$

A. 3

B. 4

C. 2

D. 5

E. None of these

5. $\frac{32}{100} \times 750 - ? = \frac{14}{100} \times 540$

A. 152.6

B. 132.6

C. 146.6

D. 164.4

E. None of these

6. $15^2 \times \frac{240}{32} \times 112 = ? + 23^2$

A. 148841

B. 156481

C. 184471

D. 188471

E. None of these

7. $(0.16)^2 \div (0.064) \times (0.4)^8 = (0.4)^?$

A. 9

B. 6

C. 7

D. 5

E. None of these

8. $456.879 + 324.54 - 567.43 - 32.45 + 68.56 = ?$

A. 202.231

B. 250.099

C. 120.098

D. 122.908

E. None of these

9. $9696 \div 16 \times \sqrt{25} + 23 \div 897 \times 117 = ?$

A. 3033

B. 3303

C. 3303

D. 3101

E. 3011

10. $56\% \text{ of } 590 + ? = 605 + 12 \times 1.7$

A. 259

B. 268

C. 295

D. 272

E. 284

Correct Answers:

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

Explanations:**1.**

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

$$\Rightarrow (5 + 3 - 7 + 4) + \left(\frac{1}{6} + \frac{1}{4} - \frac{1}{2} + \frac{2}{3}\right) = x$$

$$\Rightarrow 5 + \frac{2 + 3 - 6 + 8}{12} = x$$

$$\Rightarrow x = 5 + \frac{7}{12}$$

$$\Rightarrow x = 5\frac{7}{12}$$

Hence, option (B) is correct.

2. $\sqrt{5041} \% \text{ of } \sqrt{3364} + 57 = ? + 678$

$$\Rightarrow \frac{71}{100} \times 58 + 57 - 678 = x$$

$$\Rightarrow 41.18 + 57 - 678 = x$$

$$\Rightarrow x = -579.82$$

Hence, option (D) is correct.

3. 25% of 30% of 850 + 5 × 76

$$= \frac{25}{100} \times \frac{30}{100} \times 850 + 380$$

$$= 443.75$$

Hence, option (B) is correct.

4.

$$\frac{3^5}{81} \times 3^8 \times \frac{9}{27} = 3^x \times 243$$

$$\Rightarrow 3^{(5-4+8+2-3)} = 3^{(x+5)}$$

$$\Rightarrow 8 = x + 5$$

$$\Rightarrow x = 3$$

Hence, option (A) is correct.

5.

$$\frac{32}{100} \times 750 - x = \frac{14}{100} \times 540$$

$$\Rightarrow 240 - x = 75.6$$

$$\Rightarrow x = 240 - 75.6$$

$$\Rightarrow x = 164.4$$

Hence, option (D) is correct.

6.

$$15^2 \times \frac{240}{32} \times 112 = ? + 23^2$$

$$\Rightarrow 225 \times 840 = x + 529$$

$$\Rightarrow 189000 - 529 = x$$

$$\Rightarrow x = 188471$$

Hence, option (D) is correct.

7.

$$(0.16)^2 \div (0.064) \times (0.4)^8 = (0.4)^?$$

$$\Rightarrow (0.4)^4 \div (0.4)^3 \times (0.4)^8 = (0.4)^x$$

$$\Rightarrow (0.4)^{(4-3+8)} = (0.4)^x$$

$$\Rightarrow x = 9$$

Hence, option A is correct.

8.

$$456.879 + 324.54 - 567.43 - 32.45 + 68.56 = 250.099$$

Hence, option (B) is correct.

9.

$$9696 \div 16 \times \sqrt{25} + 23 \div 897 \times 117 = ?$$

$$\frac{9696}{16} \times 5 + \frac{23}{897} \times 117 = ?$$

$$= 606 \times 5 + 3$$

$$= 3030 + 3 = 3033$$

Hence, option (A) is correct.

10.

$$? = 605 + 20.4 - 590 \times \frac{56}{100}$$

$$= 625.4 - 330.4 = 295$$

Hence, option (C) is correct.



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