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Simplification Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

Simplification Quiz 53

Directions: What value should come in place of question mark.

1. $3 \frac{18}{57} \times 48 \frac{54}{63} \times 6 \frac{1}{9} + 2 \frac{1}{2} = ?$

- A. 792.5 B. 852.5 C. 1092.5 D. 992.5 E. None of these

2. $\sqrt{3249} \times \sqrt{2116} - (38)^2 = (?)^2 + (31)^2 - 72$

- A. 17 B. 19 C. 21 D. 23 E. None of these

3. $(6386 \div 31) + (825 \div 33) + (9720 \div 216) = ?$

- A. 271 B. 276 C. 283 D. 286 E. None of these

4. $(37)^2 = ? + [(11\sqrt{3} + 5\sqrt{3}) \times (9\sqrt{3} + 11\sqrt{3})]$

- A. 411 B. 415 C. 409 D. 406 E. None of these

5. $12 \frac{2}{3} \times \sqrt{324} - 34\% \text{ of } 1450 = ?^{1/2} - 280$

- A. 144 B. 225 C. 361 D. 441 E. None of these

6. $30\% \text{ of } ? = 38 + \frac{147}{3}$

- A. 281 B. 295 C. 312 D. 290 E. None of these

7. $\frac{272}{4} 18 \times 6 + \sqrt[3]{1331} = ?$

- A. -29 B. 36 C. -48 D. 54 E. None of these

8. $1512 \div 36 + 44 \times 32 = ?$

- A. 1216 B. 1450 C. 1346 D. 2527 E. None of these

9. $32^2 - 9^3 + 29 = ?^2$

- A. 12 B. 15 C. 18 D. 24 E. 28

10. $\frac{18}{396} \times \frac{33}{288} \times ? = 42$

- A. 8126 B. 8238 C. 8028 D. 8064 E. None of these

Correct Answers:

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

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Explanations:

1.

$$\Rightarrow 3\frac{18}{57} \times 48\frac{54}{63} \times 6\frac{1}{9} + 2\frac{1}{2} = ?$$

$$\Rightarrow \frac{189}{57} \times \frac{3078}{63} \times \frac{55}{9} + \frac{5}{2} = ?$$

$$\Rightarrow 18 \times 55 + 2.5 = ?$$

$$\Rightarrow ? = 990 + 2.5 = 992.5$$

Hence, option D is correct.

2.

$$\Rightarrow \sqrt{3249} \times \sqrt{2116} - (38)^2 = (?)^2 + (31)^2 - 72$$

$$\Rightarrow 57 \times 46 - 1444 = (?)^2 + 961 - 72$$

$$\Rightarrow 2622 - 1444 = (?)^2 + 889$$

$$\Rightarrow 1178 = (?)^2 + 889$$

$$\Rightarrow (?)^2 = 1178 - 889$$

$$\Rightarrow (?)^2 = 289$$

$$\Rightarrow ? = 17$$

Hence, option A is correct.

3.

$$\Rightarrow (6386 \div 31) + (825 \div 33) + (9720 \div 216) = ?$$

$$\Rightarrow 206 + 25 + 45 = ?$$

$$\Rightarrow ? = 276$$

Hence, option B is correct.

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4.

$$\Rightarrow (37)^2 = ? + [(11\sqrt{3} + 5\sqrt{3}) \times (9\sqrt{3} + 11\sqrt{3})]$$

$$\Rightarrow 1369 - [16\sqrt{3} \times 20\sqrt{3}] = ?$$

$$\Rightarrow 1369 - 16 \times 20 \times 3 = ?$$

$$\Rightarrow ? = 1369 - 960$$

$$\Rightarrow ? = 409$$

Hence, option C is correct.

5.

$$12\frac{2}{3} \times \sqrt{324} - 34\% \text{ of } 1450 = ?^{1/2} - 280$$

$$\frac{38}{3} \times 18 - 1450 \times \frac{34}{100} = ?^{1/2} - 280$$

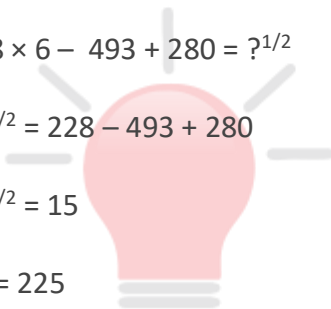
$$38 \times 6 - 493 + 280 = ?^{1/2}$$

$$?^{1/2} = 228 - 493 + 280$$

$$?^{1/2} = 15$$

$$? = 225$$

Hence, option B is correct.



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6.

$$30\% \text{ of } ? = 38 + \frac{147}{3}$$

$$30\% \text{ of } ? = 38 + 49 = 87$$

$$? = \frac{87 \times 100}{30} = 290$$

Hence, option D is correct.

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7.

$$\frac{272}{4} - 18 \times 6 + \sqrt[3]{1331} = ?$$

$$? = 68 - 108 + 11$$

$$? = -29$$

Hence, option A is correct.

8. $1512 \div 36 + 44 \times 32 = ?$

$$? = 42 + 1408$$

$$? = 1450$$

Hence, option B is correct.

9. $32^2 - 9^3 + 29 = ?^2$

$$?^2 = 1024 - 729 + 29 = 324$$

$$? = 18$$

Hence, option C is correct.

10.

$$\frac{18}{396} \times \frac{33}{288} \times ? = 42$$

$$? = \frac{42 \times 396 \times 288}{18 \times 33}$$

$$? = 42 \times \frac{396}{33} \times \frac{288}{18}$$

$$? = 42 \times 12 \times 16$$

$$? = 8064$$

Hence, option D is correct.



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