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

Simplification Quiz 44

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

1. $5 \times \sqrt{?} = 735 \div 3$

- A. 7 B. 49 C. 2401 D. 98 E. None of these

2. $20\% \text{ of } 2^7 + 40\% \text{ of } 64 - ? = 0$

- A. 51.20 B. 56.80 C. 42.36 D. 62.24 E. None of these

3. $(4.5 \times 4.5 \times 4.5 \times 4.5) \div 225 \div 25 + 3^3 = ?$

- A. 27.729 B. 277.29 C. 27.0729 D. 2772.90 E. None of these

4. $3 \frac{1}{2} \times \frac{7 \frac{2}{5}}{9 \frac{3}{5}} \times 8^2 \times 60 = 2^4 \times ?$

- A. 624 B. 2364 C. 647.5 D. 1864 E. None of these

5. $(2^3 + 7^2) \div 2 \times 3 = ?$

- A. 83.5 B. 87.5 C. 92.5 D. 85.5 E. None of these

6. $17 \frac{1}{3} + 21 \frac{1}{2} = 33 \frac{1}{3} \% \text{ of } ?$

- A. 116.5 B. 104.5 C. 112.33 D. 118.33 E. None of these

7. $\frac{18 \times \frac{8}{15} + 10 \% \text{ of } 624}{?} = 4$

- A. 16 B. 18 C. 22 D. 24 E. None of these

8. $\sqrt{1024} \times 40 + 20^2 + 0.5\% \text{ of } 9600 + 469 = ?^3$

- A. 23 B. 13 C. 17 D. 19 E. None of these

9. $4 \frac{3}{5} \% \text{ of } 6500 + 3 \frac{2}{7} \% \text{ of } 3500 = ?$

- A. 424 B. 414 C. 418 D. 404 E. None of these

10. $4^4 + 5^4 + 10\% \text{ of } 8000 = ?^2$

- A. 1681 B. 16812 C. 41 D. 43 E. None of these

Correct Answers:

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

Explanations:

1. $5 \times \sqrt{?} = 735 \div 3$

$$5 \times \sqrt{?} = 245$$

$$\sqrt{?} = 49$$

$$? = 2401$$

Hence, option C is correct.

2. $20\% \text{ of } 2^7 + 40\% \text{ of } 64 - ? = 0$

$$20\% \text{ of } 128 + 40\% \text{ of } 64 = ?$$

$$20 \times \frac{128}{100} + 40 \times \frac{64}{100} = ?$$

$$2 \times 20 \times \frac{128}{100} = ?$$

$$? = 51.2$$

Hence, option A is correct.

3. $(4.5 \times 4.5 \times 4.5 \times 4.5) \div 225 \div 25 + 3^3 = ?$

$$\frac{4.5 \times 4.5 \times 4.5 \times 4.5}{15 \times 15 \times 25} + 27 = ?$$

$$(0.3 \times 0.3 \times 0.9 \times 0.9) + 27 = ?$$

$$0.0729 + 27 = ?$$

$$? = 27.0729$$

Hence, option C is correct.

4.

$$3\frac{1}{2} \times \frac{7\frac{2}{5}}{\frac{3}{9\frac{5}{5}}} \times 8^2 \times 60 = 2^4 \times ?$$

$$\frac{7}{2} \times \frac{37}{5} \times \frac{5}{48} \times 64 \times 60 = 2^4 \times ?$$

$$\frac{7 \times 37 \times 64 \times 60}{48 \times 2} = 2^4 \times ?$$

$$? \times 16 \times 96 = 7 \times 37 \times 64 \times 60$$

$$? = 647.5$$

Hence, option C is correct.

5. $(2^3 + 7^2) \div 2 \times 3 = ?$

$$\frac{8 + 49}{2} \times 3 = ?$$

$$\frac{57}{2} \times 3 = ?$$

$$? = 85.5$$

Hence, option D is correct.

6.

$$17\frac{1}{3} + 21\frac{1}{2} = 33\frac{1}{3}\% \text{ of } ?$$

$$\frac{52}{3} + \frac{43}{2} = \frac{1}{3} \text{ of } ?$$

$$\frac{104 + 129}{6} = \frac{1}{3} \text{ of } ?$$

$$? = \frac{233}{2} = 116.5$$

Hence, option A is correct.

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7.

$$\frac{18 \times \frac{8}{15} + 10\% \text{ of } 624}{?} = 4$$

$$6 \times \frac{8}{5} + 62.4 = ? \times 4$$

$$9.6 + 62.4 = 72 = 4 \times ?$$

$$? = 18$$

Hence, option B is correct.

8. $\sqrt{1024} \times 40 + 20^2 + 0.5\% \text{ of } 9600 + 469 = ?^3$

$$32 \times 40 + 400 + 48 + 469 = ?^3$$

$$1280 + 448 + 469 = ?^3$$

$$2197 = ?^3$$

$$? = 13$$

Hence, option B is correct.

9.

$$4\frac{3}{5}\% \text{ of } 6500 + 3\frac{2}{7}\% \text{ of } 3500 = ?$$

$$\frac{23}{500} \times 6500 + \frac{23}{700} \times 3500 = ?$$

$$? = 23 \times (13 + 5)$$

$$? = 23 \times 18 = 414$$

Hence, option B is correct.

10. $4^4 + 5^4 + 10\% \text{ of } 8000 = ?^2$

$$256 + 625 + 800 = 1681 = ?^2$$

$$? = 41$$

Hence, option C is correct.



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