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The Question Bank

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

Simplification Quiz 19

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

1. $468 \div 39 \times 20 + 226 = ? + 420$

- A. 36 B. 46 C. 26 D. 16 E. None of these

2. $(2\sqrt{288} - 31) + (\sqrt{8} - 6)^2 = (?)^2$

- A. -4 B. 22 C. 13 D. 4 E. None of these

3. $2\frac{1}{4} + 5\frac{1}{6} - 4\frac{1}{8} = ? + 1\frac{1}{12}$

- A. $3\frac{7}{48}$ B. $2\frac{5}{24}$ C. $3\frac{5}{24}$ D. $2\frac{5}{12}$ E. None of these

4. $42\% \text{ of } 580 + \frac{3}{7} \text{ of } 2030 - 37\% \text{ of } 670 = ?$

- A. 882.7 B. 865.7 C. 872.7 D. 868.7 E. None of these

5. $6668 + 446.8 + 2468.28 - 8326.68 + 2248.6 = ?$

- A. 3105 B. 3205 C. 3505 D. 3405 E. None of these

6. $\sqrt{8 + \sqrt{49 + \sqrt{225}}} = (?)^2 - 21$

- A. 6 B. 5 C. 4 D. 8 E. None of these

7. $\frac{3}{7} \text{ of } 5033 + 86\% \text{ of } 750 = (?)^2 + 401$

- A. 39 B. 48 C. 51 D. 49 E. None of these

8. $(4 \times 4)^3 \div (512 \div 8)^4 \times (32 \times 8)^4 = (2 + 2)^{?+4}$

- A. 12 B. 6 C. Other than the given options D. 8 E. 14

9. $88\% \text{ of } 1555 = 38\% \text{ of } 1518 + ?$

- A. 541.56 B. 591.56 C. 781.56 D. 791.56 E. None of these

10. $(16.4)^2 + (17.2)^2 - (13.8)^2 = ?$

- A. 370.36 B. 374.36 C. 380.16 D. 390.26 E. None of these

Correct Answers:

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

Explanations:

1. $468 \div 39 \times 20 + 226 = ? + 420$
 $? = 468 \div 39 \times 20 + 226 - 420$
 $= 12 \times 20 + 226 - 420$
 $= 240 + 226 - 420$
 $? = 46$

Hence, option B is correct.

2. $(2\sqrt{288} - 31) + (\sqrt{8} - 6)^2 = (?)^2$
or, $(?)^2 = 2\sqrt{36 \times 8} - 31 + 8 + 36 - 12\sqrt{8}$
or, $(?)^2 = 12\sqrt{8} - 31 + 8 + 36 - 12\sqrt{8}$
 $? = \sqrt{13}$

Hence, option E is correct.

3. $2\frac{1}{4} + 5\frac{1}{6} - 4\frac{1}{8} = ? + 1\frac{1}{12}$

$? = (2 + 5 - 4 - 1) + \left(\frac{1}{4} + \frac{1}{6} - \frac{1}{8} - \frac{1}{12}\right)$

$= 2 + \left(\frac{6 + 4 - 3 - 2}{24}\right) = 2 + \frac{5}{24} = 2\frac{5}{24}$

Hence, option B is correct.

4.

$42\% \text{ of } 580 + \frac{3}{7} \text{ of } 2030 - 37\% \text{ of } 670 = ?$

$? = 243.6 + 870 - 247.9$

$? = 865.7$

Hence, option B is correct.

5. $6668 + 446.8 + 2468.28 - 8326.68 + 2248.6 = ?$

$$? = 6668 + 446.8 + 2468.28 - 8326.68 + 2248.6$$

$$? = 3505$$

Hence, option C is correct.

6. $\sqrt{8 + \sqrt{49 + \sqrt{225}}} = (?)^2 - 21$
Or, $(?)^2 = \sqrt{8 + \sqrt{49 + 15}} + 21$
Or, $(?)^2 = \sqrt{8 + \sqrt{64}} + 21$
Or, $(?)^2 = \sqrt{8 + 8} + 21$
Or, $(?)^2 = \sqrt{16} + 21$
Or, $(?)^2 = 4 + 21$
Or, $(?)^2 = \sqrt{25} = 5$
Hence, option B is correct.

7. $\frac{3}{7}$ of 5033 + 86% of 750 = $(?)^2 + 401$

$$(?)^2 + 401 = \frac{3}{7} \text{ of } 5033 + 86\% \text{ of } 750$$

$$\Rightarrow ?^2 = 2157 + 645 - 401$$

$$\Rightarrow ?^2 = 2157 + 645 - 401$$

$$\Rightarrow ?^2 = 2401 \Rightarrow ? = \sqrt{2401} = 49$$

Hence, option D is correct.

8. $(4 \times 4)^3 \div (512 \div 8)^4 \times (32 \times 8)^4 = (2 + 2)^{?+4}$
 $\Rightarrow (2 + 2)^{?+4} = (4 \times 4)^3 \div (512 \div 8)^4 \times (32 \times 8)^4$
 $= (4)^{2 \times 3} \div (4)^{3 \times 4} \times (4)^{4 \times 4}$
 $= 4^{6-12+16} = 4^{10}$
or, $(4)^{?+4} = 4^{10}$
or, $? + 4 = 10$
 $\therefore ? = 10 - 4 = 6$

Hence, option B is correct.

9. $88\% \text{ of } 1555 = 38\% \text{ of } 1518 + ?$

$$\Rightarrow 1368.4 - 576.84 = 791.56$$

Hence, option D is correct.

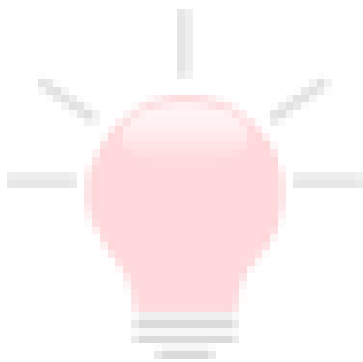
10. $(16.4)^2 + (17.2)^2 - (13.8)^2 = ?$

$$? = (16.4)^2 + (17.2)^2 - (13.8)^2$$

$$? = 268.96 + 295.84 - 190.44$$

$$? = 374.36$$

Hence, option B is correct.



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