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The Question Bank

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 49

Directions: What will come in place of question mark(?) in the following questions?

1. $(\sqrt{7} - \sqrt{10})^2 + (\sqrt{5} + \sqrt{14})^2 = (?)^3 - 28$

- A. $\sqrt{2}$ B. 4 C. $\sqrt{6}$ D. 3 E. None of these

2. $64\% \text{ of } \sqrt{409600} \div 1.6 = ? \times 2.56$

- A. $\sqrt{10}$ B. 256 C. $\sqrt{160}$ D. 100 E. None of these

3. $38.4\% \text{ of } 1450 + 78.2\% \text{ of } 240 - ?^2 = 20\% \text{ of } 77.4$

- A. $\sqrt{17}$ B. 19 C. 27 D. 81 E. None of these

4. $(2.89)^4 \div (4913 \div 1000)^3 \times (0.17 \times 10)^3 = (1.7)^{? - 3}$

- A. $\sqrt{4}$ B. 6 C. 2 D. 5 E. None of these

5. $\sqrt[3]{5.832} + 35\% \text{ of } 6500 - ?\% \text{ of } 1250 = 222.8$

- A. 164.32 B. 18.23 C. 174.32 D. 194.23 E. None of these

6. $13\frac{9}{7}\% \text{ of } 2835 + 25\% \text{ of } 3248 = 1117 + ?$

- A. 110 B. 100 C. 132 D. 50 E. None of these

7. $\sqrt{32 + \sqrt{13 + \sqrt{5 + \sqrt{16}}}} = ?$

- A. $3\sqrt{2}$ B. 7 C. $4\sqrt{3}$ D. 6 E. None of these

8. $(0.0036)^{1/2} + (0.0169)^{1/2} = ? + 0.03$

- A. 0.16 B. 0.12 C. 0.14 D. 0.26 E. None of these

9. $25\% \text{ of } \sqrt[3]{328509} + 75\% \text{ of } \sqrt[3]{79507} = ?$

- A. 49.5 B. 36.5 C. 39.5 D. 41.5 E. None of these

10. $33^2 + 34^2 + 35 + 36^2 - 39^2 = ?$

A. 2025

B. 2055

C. 3025

D. 3155

E. None of these

Correct Answers:

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

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Explanations:

1. $(\sqrt{7} - \sqrt{10})^2 + (\sqrt{5} + \sqrt{14})^2 = (?)^3 - 28$

$$(?)^3 = 7 + 10 - 2\sqrt{70} + 5 + 14 + 2\sqrt{70} + 28$$

$$(?)^3 = 36 + 28 = 64$$

$$\therefore ? = \sqrt[3]{64} = 4$$

Hence, option B is correct.

2. $64\% \text{ of } \sqrt{409600} \div 1.6 = ? \times 2.56$

$$? \times 2.56 = 64\% \text{ of } 640 \div 1.6$$

$$? \times 2.56 = \frac{64 \times 640}{100} \div 1.6 = \frac{64 \times 640}{100 \times 1.6} = 256$$

$$\therefore ? = \frac{256}{2.56} = 100$$

Hence, option D is correct.

3. $38.4\% \text{ of } 1450 + 78.2\% \text{ of } 240 - ?^2 = 20\% \text{ of } 77.4$

$$\text{or, } ?^2 = 38.4\% \text{ of } 1450 + 78.2\% \text{ of } 240 - 20\% \text{ of } 77.4$$

$$\text{or, } ?^2 = 556.8 + 187.68 - 15.48$$

$$= 744.48 - 15.48 = 729$$

$$\therefore ? = \sqrt{729} = 27$$

Hence, option C is correct.

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4. $(2.89)^4 \div (4913 \div 1000)^3 \times (0.17 \times 10)^3 = (1.7)^{?-3}$

or, $(1.7)^8 \div (1.7)^{3 \times 3} \times (1.7)^3 = (1.7)^{?-3}$

or, $(1.7)^8 \div (1.7)^9 \times (1.7)^3 = (1.7)^{?-3}$

or, $(1.7)^{8-9+3} = (1.7)^{?-3}$

or, $(1.7)^2 = (1.7)^{?-3}$

$\therefore ? - 3 = 2$

or, $? = 3 + 2 = 5$

Hence, option D is correct.

5. $\sqrt[3]{5.832} + 35\% \text{ of } 6500 - ?\% \text{ of } 1250 = 222.8$

or, $1.8 + 2275 - ? \times 12.5 = 222.8$

or, $? \times 12.5 = 2276.8 - 222.8$

or, $? = \frac{2054}{12.5} = 164.32$

Hence, option A is correct.

6.

$13\frac{9}{7}\% \text{ of } 2835 + 25\% \text{ of } 3248 = 1117 + ?$

$\therefore \frac{100}{7}\% \text{ of } 2835 + \frac{1}{4} \times 3248 = 1117 + ?$

$= \frac{100}{700} \times 2835 + 812 = 1117 + ?$

$\Rightarrow 405 + 812 = 1117 + ?$

$\therefore ? = 1217 - 1117 = 100$

Hence, option B is correct.

7.

$$\sqrt{32 + \sqrt{13 + \sqrt{5 + \sqrt{16}}}} = ?$$

$$\Rightarrow ? = \sqrt{32 + \sqrt{13 + \sqrt{5 + 4}}}$$

$$\Rightarrow ? = \sqrt{32 + \sqrt{13 + \sqrt{9}}}$$

$$\Rightarrow ? = \sqrt{32 + \sqrt{13 + 3}}$$

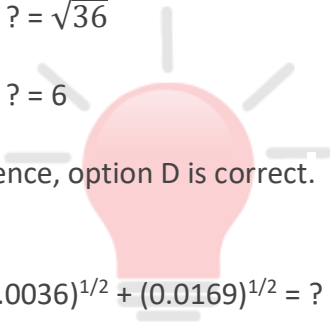
$$\Rightarrow ? = \sqrt{32 + \sqrt{16}}$$

$$\Rightarrow ? = \sqrt{32 + 4}$$

$$\Rightarrow ? = \sqrt{36}$$

$$\Rightarrow ? = 6$$

Hence, option D is correct.



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8. $(0.0036)^{1/2} + (0.0169)^{1/2} = ? + 0.03$

$$\Rightarrow ? + 0.03 = 0.06 + 0.13$$

$$\Rightarrow ? = 0.19 - 0.03 = 0.16$$

Hence, option B is correct.

9. $25\% \text{ of } 328509 + 75\% \text{ of } 79507 = ?$

$$? = 25\% \text{ of } 69 + 75\% \text{ of } 43$$

$$? = 17.25 + 32.25 = 49.5$$

Hence, option A is correct.

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10. $33^2 + 34^2 + 35 + 36^2 - 39^2 = ?$

$$? = 1089 + 1156 + 35 + 1296 - 1521$$

$$? = 2055$$

Hence, option B is correct.

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