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Simplification Questions for Bank Clerk Pre Exams.

Simplification Quiz 12

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

1. $57\% \text{ of } 350 + ?\% \text{ of } 170 = -89.5 - \sqrt[3]{512} - 9$

- A. 210 B. -165 C. -180 D. 190 E. -155

2. $6\frac{4}{11} + \frac{2}{33} - 4\frac{2}{3} = ? - \frac{1}{33}$

- A. $5\frac{21}{35}$ B. $2\frac{5}{11}$ C. $1\frac{26}{33}$ D. $1\frac{20}{33}$ E. None of these

3. $87 \times 6.3 \div \sqrt{841} + 11.5 - 16.3 + 13.8 = ?$

- A. 31.8 B. 27.9 C. 35.9 D. 20.6 E. 25.8

4. $\sqrt{529} \div ?\% \text{ of } 270 = 115 \sqrt{81} \div ?^2$

- A. 125.6 B. 121.5 C. 130.4 D. 117.2 E. 123.5

5. $?^2\% \text{ of } 1219 \div 53 = (246.74 - 181.36 + 103.62) \div 23$

- A. $\frac{130}{23}$ B. $\frac{115}{21}$ C. $\frac{125}{16}$ D. $\frac{140}{23}$ E. None of these

6. $120 \times 2\frac{4}{5} \times 17.5 = ? \times 168$

- A. 28 B. 21 C. 32 D. 25 E. 35

7. $787.20 + 809.61 + 812.80 + 778.39 = ? + 699.039 + 700.961$

- A. 1568 B. 1698 C. 1788 D. 1848 E. 1918

8. $3\frac{1}{5} \div 2\frac{2}{7} \times \left(\frac{2}{7} + \frac{3}{5} - 1\frac{6}{5}\right) = ?$

- A. $-\frac{46}{25}$ B. $-\frac{36}{25}$ C. $-\frac{41}{25}$ D. $-\frac{51}{25}$ E. $-\frac{49}{25}$

9. $(775.67 - 200.68 + 101.01) \div \sqrt{169} = ?^3 - \sqrt{144}$

- A. 8 B. 6 C. 4 D. 10 E. 12

10. $2.3^2 - 12.42 + 2.7^2 = ?^2 \div \sqrt{625}$

- A. -6 B. +9 C. +4 D. -2 E. None of these

Correct Answers:

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

Explanations:

1. $57\% \text{ of } 350 + ?\% \text{ of } 170 = -89.5 - \sqrt[3]{512} - 9$

$$350 \times \frac{57}{100} + ? \times \frac{170}{100} = -89.5 - 8 - 9$$

$$199.5 + 1.7 \times ? = -106.5$$

$$1.7 \times ? = -106.5 - 199.5$$

$$1.7 \times ? = -306$$

$$? = -180$$

Hence, option C is correct.

2.

$$6\frac{4}{11} + \frac{2}{33} - 4\frac{2}{3} = ? - \frac{1}{33}$$

$$6\frac{4}{11} + \frac{2}{33} - 4\frac{2}{3} + \frac{1}{33} = ?$$

$$? = (6 - 4) + \left(\frac{4}{11} + \frac{2}{33} - \frac{2}{3} + \frac{1}{33}\right)$$

$$? = 2 + \frac{12 + 2 - 22 + 1}{33}$$

$$? = 2 + \frac{-7}{33}$$

$$? = 2 - \frac{7}{33}$$

$$? = 1 + \left(1 - \frac{7}{33}\right)$$

$$? = 1 + \frac{26}{33} = 1\frac{26}{33}$$

Hence, option C is correct.

3. $87 \times 6.3 \div \sqrt{841} + 11.5 - 16.3 + 13.8 = ?$

$$? = 87 \times 6.3 \div 29 + 25.3 - 16.3$$

$$? = 3 \times 6.3 + 9$$

$$? = 18.9 + 9 = 27.9$$

Hence, option B is correct.

4. $\sqrt{529} \div ?\% \text{ of } 270 = 115 \sqrt{81} \div ?^2$

$$23 \div (2.7 \times ?) = 115 \times 9 \div ?^2$$

$$23 \div 2.7 = 115 \times 9 \div ?$$

$$? = 115 \times 9 \div 23 \times 2.7$$

$$? = 121.5$$

Hence, option B is correct.

5. $?^2\% \text{ of } 1219 \div 53 = (246.74 - 181.36 + 103.62) \div 23$

$$?^2 \times \frac{1219}{100} \div 53 = (350.36 - 181.36) \div 23$$

$$?^2 \times \frac{23}{100} = 169 \div 23$$

$$?^2 = 169 \times 100 \div (23 \times 23)$$

$$? = 13 \times 10 \div 23$$

$$? = \frac{130}{23}$$

Hence, option A is correct.

6.

$$120 \times 2\frac{4}{5} \times 17.5 = ? \times 168$$

$$120 \times \frac{14}{5} \times \frac{175}{10} = ? \times 168$$

$$12 \times 14 \times 35 \div 168 = ?$$

$$? = 35$$

Hence, option E is correct.

7. $787.20 + 809.61 + 812.80 + 778.39 = ? + 699.039 + 700.961$

$$1600 + 1588 = ? + 1400$$

$$? = 3188 - 1400$$

$$? = 1788$$

Hence, option C is correct.

8.

$$3\frac{1}{5} \div 2\frac{2}{7} \times \left(\frac{2}{7} + \frac{3}{5} - 1\frac{6}{5}\right) = ?$$

$$? = \frac{16}{5} \div \frac{16}{7} \times \left(\frac{2}{7} + \frac{3}{5} - \frac{11}{5}\right) = ?$$

$$? = \frac{16}{5} \times \frac{7}{16} \times \left(\frac{10 + 21 - 77}{35}\right)$$

$$? = \frac{7}{5} \times \left(\frac{31 - 77}{35}\right)$$

$$? = \frac{7}{5} \times \left(-\frac{46}{35}\right)$$

$$? = -\frac{46}{25}$$

Hence, option A is correct.

9. $(775.67 - 200.68 + 101.01) \div \sqrt{169} = ?^3 - \sqrt{144}$

$$(876.68 - 200.68) \div 13 = ?^3 - 12$$

$$676 \div 13 = ?^3 - 12$$

$$52 + 12 = ?^3$$

$$?^3 = 64$$

$$? = 4$$

Hence, option C is correct.

10. $2.3^2 - 12.42 + 2.7^2 = ?^2 \div \sqrt{625}$

$$5.29 - 12.42 + 7.29 = ?^2 \div 25$$

$$12.58 - 12.42 = ?^2 \div 25$$

$$0.16 \times 25 = ?^2$$

$$?^2 = 4$$

$$? = \pm 2$$

Hence, option E is correct.



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