Simplification Questions for Bank Clerk Pre Exams.

Simplification Quiz 8

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

1. $333.44 + 33.4444 + 3.444 + 3333.4 = ?$

A. 3703.5284 B. 3704.7284 C. 3703.7284 D. 3703.7384 E. None of these

2. $1\frac{13}{6} - 2\frac{7}{18} + 5\frac{4}{9} = ? + \frac{7}{3}$

A. $2\frac{3}{4}$ B. $5\frac{2}{3}$ C. $3\frac{8}{9}$ D. $1\frac{3}{4}$ E. None of these

3. $?^2 - 18.75 - 11.25 = 9.09\%$ of $396 + 295$

A. 30 B. 25 C. 21 D. 19 E. 39

4. $(37.5\%$ of $1160) \div (\sqrt{441} - \sqrt{256}) = ? + 23$

A. 70 B. 55 C. 61 D. 64 E. 79

5. $(11.275 + 101.237 + 13.5) \div \sqrt[3]{64} - (17.657 + 18.976) \div 2^2 = ?^2 + 8.379 \div 4$

A. 3 B. 5.5 C. 4.5 D. 6 E. 8

6. $4\frac{2}{3} \times \frac{12}{112}\left[\frac{3}{4} \div \left(\frac{1}{5} + \frac{3}{8} - \frac{5}{4}\right)\right] = ?$

A. $\frac{1}{2}$ B. $-\frac{5}{9}$ C. $-\frac{2}{5}$ D. $\frac{5}{9}$ E. $-\frac{1}{3}$

7. $?^2 + 200 \div \sqrt{64} - 6^2 \times 7 = 18 + \sqrt{121}$

A. 12 B. 25 C. 18 D. 16 E. None of these

8. $(2641 + 1155 - 3351) = ?^{1/2} \times 5$

A. 5041 B. 900 C. 7921 D. 881 E. None of these

9. 42% of $2150 \div ? = \sqrt{225} \div \sqrt{25}$

A. 301 B. 405 C. 203 D. 125 E. None of these

10. $\sqrt{676} + 241.56 - 128.87 = ?^{1/2} + 115.69$

A. 144 B. 196 C. 441 D. 225 E. None of these

Correct Answers:

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

Explanations:

1. 333.44 + 33.4444 + 3.444 + 3333.4 = ?
3 + 33 + 333 + 3333 + .4 + .44 + .444 + .4444 = ?
3 (1234) + 4(.4321) = ?
3702 + 1.7284 = ?
? = 3703.7284

Hence, option C is correct.

2.

$1\frac{13}{6} - 2\frac{7}{18} + 5\frac{4}{9} = ? + \frac{7}{3}$

$1\frac{13}{6} - 2\frac{7}{18} + 5\frac{4}{9} - \frac{7}{3} = ?$

$1 - 2 + 5 + \left(\frac{13}{6} - \frac{7}{18} + \frac{4}{9} - \frac{7}{3}\right) = ?$

$6 - 2 + \left(\frac{39 - 7 + 8 - 42}{18}\right) = ?$

$4 + \left(\frac{-2}{18}\right) = ?$

$3 + \left(1 - \frac{1}{9}\right) = ?$

$? = 3 + \frac{8}{9}$

$? = 3\frac{8}{9}$

Hence, option C is correct.

3. $?^2 - 18.75 - 11.25 = 9.09\%$ of $396 + 295$
$?^2 - 30 = 396 \div 11 + 295$
$?^2 = 36 + 295 + 30$
$?^2 = 361$
$? = 19$
Hence, option D is correct.

4.

$\frac{37.5\% \text{ of } 1160}{\sqrt{441} - \sqrt{256}} = ? + 23$

$\frac{\left(1160 \times \frac{3}{8}\right)}{21 - 16} = ? + 23$

$\frac{435}{5} = ? + 23$

$87 - 23 = ?$

$? = 64$

Hence, option D is correct.

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5. $(11.275 + 101.237 + 13.5) \div 64 - (17.657 + 18.976) \div 2^2 = ?^2 + 8.379 \div 4$

$(126.012) \div 4 - (36.633) \div 4 = ?^2 + 8.379 \div 4$

$(126.012) \div 4 - (36.633) \div 4 - (8.379) \div 4 = ?^2$

$(126.012 - 45.012) \div 4 = ?^2$

$?^2 = 81 \div 4$

$? = \frac{9}{2} = 4.5$

Hence, option C is correct.

6.

$4\frac{2}{3} \times \frac{12}{112}\left[\frac{3}{4} \div \left(\frac{1}{5} + \frac{3}{8} - \frac{5}{4}\right)\right] = ?$

or, $\frac{14}{3} \times \frac{12}{112}\left[\frac{3}{4} \div \left(\frac{8 + 15 - 50}{40}\right)\right] = ?$

or, $\frac{1}{2}\left[\frac{3}{4} \div \left(\frac{23 - 50}{40}\right)\right] = ?$

$\frac{1}{2} \times \frac{3}{4} \times \left(\frac{-40}{27}\right) = ?$

$? = -\frac{5}{9}$

Hence, option B is correct.

7. $?^2 + 200 \div \sqrt{64} - 6^2 \times 7 = 18 + \sqrt{121}$

$?^2 + 200 \div 8 - 36 \times 7 = 18 + 11$

$?^2 + 25 - 252 = 29$

$?^2 = 29 - 25 + 252$

$?^2 = 4 + 252$

$?^2 = 256$

$? = 16$

Hence, option D is correct.

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8. $(2641 + 1155 - 3351) = ?^{1/2} \times 5$

$(3796 - 3351) = ?^{1/2} \times 5$

$445 = ?^{1/2} \times 5$

$?^{1/2} = 89$

$? = 89^2$

$? = 7921$

Hence, option C is correct.

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9. 42% of 2150 ÷ ? = $\sqrt{225} \div \sqrt{25}$

$903 \div ? = 15 \div 5$

$903 \div ? = 3$

$? = 301$

Hence, option A is correct.

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10. $\sqrt{676} + 241.56 - 128.87 = ?^{1/2} + 115.69$

$26 + 112.69 - 115.69 = ?^{1/2}$

$?^{1/2} = 26 - 3$

$?^{1/2} = 23$

$? = 529$

Hence, option E is correct.