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The Question Bank

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

Simplification Quiz 46

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

1. $(4698 - 3625 - 857) = ?^3 - 42 - \sqrt{7225}$

A. 1242.5   B. 1361.5   C. 1124   D. 1220   E. None of these

2. $\dfrac{?}{37} = \dfrac{15}{?} \times \dfrac{1}{2145} \times \dfrac{1}{9.25} \times 676 \times 143$

A. 36   B. 26   C. 69   D. 55   E. None of these

3. $\sqrt{441} \times (985.35 - 969.35) = ?^{1/2} + 305$

A. 324   B. 900   C. 1225   D. 961   E. None of these

4. $6992 \div 19 - ?\% \text{ of } 652 = -4196$

A. 700   B. 600   C. 300   D. 800   E. None of these

5. $\left[\dfrac{3}{2} + \dfrac{1}{2}\left\{ \dfrac{3}{4} - \dfrac{1}{2}\left(\dfrac{7}{8} - \dfrac{3}{4} \right) \right\} \right] = ?$

A. $\dfrac{59}{15}$ B. $\dfrac{59}{32}$ C. $\dfrac{59}{37}$ D. $\dfrac{58}{11}$ E. None of these

6. $(4863 - \sqrt{2601}) \times 1.5 = ?$

A. 7200   B. 7218   C. 7250   D. 7128   E. None of these

7. $38\% \text{ of } 295 + 62\% \text{ of } 445 = ?$

A. 386   B. 388   C. 380   D. 381   E. None of these

8. $1\dfrac{1}{7} - 1\dfrac{1}{9} + 1\dfrac{1}{63} = ?$

A. $1\dfrac{2}{63}$ B. $1\dfrac{1}{21}$ C. $2\dfrac{1}{21}$ D. $1\dfrac{4}{63}$ E. None of these

9. $150\% \text{ of } 300 + ?\% \text{ of } 500 = 800$

A. 60   B. 70   C. 50   D. 75   E. None of these

10. $6318 \div \sqrt[3]{17576} = \sqrt{?} \times 9$

A. 643   B. 729   C. 743   D. 629   E. None of these

Correct Answers:

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

Explanations:

1. $(4698 - 3625 - 857) = ?^3 - 42 - \sqrt{7225}$

$4698 - 4482 = ?^3 - 42 - 85$

$216 = ?^3 - 127$

$?^3 = 216 + 127$

$?^3 = 343$

$? = 7$

Hence, option C is correct.

2.

$\dfrac{?}{37} = \dfrac{15}{?} \times \dfrac{1}{2145} \times \dfrac{1}{9.25} \times 676 \times 143$

$?^2 = \dfrac{37 \times 15 \times 676 \times 143}{2145 \times 9.25}$

$?^2 = 4 \times 676$

$? = 2 \times 26 = 52$

Hence, option E is correct.

3. $\sqrt{441} \times (985.35 - 969.35) = ?^{1/2} + 305$

$21 \times 16 = ?^{1/2} + 305$

$336 - 305 = ?^{1/2}$

$?^{1/2} = 31$

$? = 961$

Hence, option D is correct.

4.   6992 ÷ 19 − ?% of 652 = − 4196

368 + 4196 = ?% of 652

?% of 652 = 4564

? = 4564 ÷ 652 × 100

? = 700

Hence, option A is correct.

5.

$$\left[\frac{3}{2}+\frac{1}{2}\left\{\frac{3}{4}-\frac{1}{2}\left(\frac{7}{8}-\frac{3}{4}\right)\right\}\right] = ?$$

$$? = \left[\frac{3}{2}+\frac{1}{2}\left\{\frac{3}{4}-\frac{1}{2}\left(\frac{7}{8}-\frac{6}{8}\right)\right\}\right]$$

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

$$? = \left[\frac{3}{2}+\frac{1}{2}\left\{\frac{3}{4}-\frac{1}{16}\right\}\right]$$

$$? = \left[\frac{3}{2}+\frac{1}{2}\left\{\frac{12}{16}-\frac{1}{16}\right\}\right]$$

$$? = \left[\frac{3}{2}+\frac{1}{2}\left\{\frac{11}{16}\right\}\right]$$

$$? = \left[\frac{3}{2}+\frac{11}{32}\right]$$

$$? = \left[\frac{48}{32}+\frac{11}{32}\right]$$

$$? = \left[\frac{59}{32}\right]$$

Hence, option B is correct.

6. $(4863 - \sqrt{2601}) \times 1.5 = ?$

? = $(4863 - \sqrt{2601}) \times 1.5$

? = $(4863 - \sqrt{51 \times 51}) \times 1.5$

? = $(4863 - 51) \times 1.5$

? = $(4812) \times 1.5$

? = 7218

Hence, option B is correct.

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7. 38% of 295 + 62% of 445 = ?

? = $\dfrac{38}{100} \times 295 + \dfrac{62}{100} \times 445$

? = 0.38 × 295 + 0.62 × 445

? = 112.1 + 275.9

? = 388

Hence, option B is correct.

8.

$1\dfrac{1}{7} - 1\dfrac{1}{9} + 1\dfrac{1}{63} = ?$

? = $1 - 1 + 1 + \dfrac{1}{7} - \dfrac{1}{9} + \dfrac{1}{63}$

? = $1 + \dfrac{1}{7} - \dfrac{7}{63} + \dfrac{1}{63}$

? = $1 + \dfrac{1}{7} - \dfrac{6}{63}$

? = $1 + \dfrac{3}{63}$

? = $\dfrac{66}{63} = \dfrac{22}{21} = 1\dfrac{1}{21}$

Hence, option B is correct.

9. 150% of 300 + ?% of 500 = 800

?% of 500 = 800 − 150% of 300

$\dfrac{?}{100}$ × 500 = 800 − 450

$\dfrac{?}{100}$ × 500 = 350

? = $\dfrac{350 \times 100}{500}$ = 70

Hence, option B is correct.

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10. $6318 \div \sqrt[3]{17576} = \sqrt{?} \times 9$

? = $\left(\dfrac{6318 \div \sqrt[3]{17576}}{9}\right)^2$

? = $\left(\dfrac{6318 \div 26}{9}\right)^2$

? = $\left(\dfrac{243}{9}\right)^2$

? = $(27)^2$

? = 729

Hence, option B is correct.