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

Simplification Quiz 52

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

1. ? % of (19154 – 15644) = $9^2 + 6^2$

A. 5 B. 3 C. $\frac{10}{3}$ D. $\frac{20}{3}$ E. None of these

2. $4\frac{3}{10} + 2\frac{5}{3} - 5\frac{7}{8}$ = ?

A. $2\frac{111}{120}$ B. $2\frac{133}{115}$ C. $1\frac{119}{120}$ D. $2\frac{11}{120}$ E. None of these

3. $\sqrt{1686 - 317} + \sqrt{3441 - 525}$ = ?

A. 92 B. 95 C. 91 D. 99 E. None of these

4. $\left(\frac{1}{3}\right)$ of 2529 + 42% of 1450 = $(?)^2$ – 949

A. 51 B. 41 C. 39 D. 49 E. 59

5. 7878 ÷ 26 × 13 – 333 = ?

A. 3806 B. 3636 C. 2406 D. 3606 E. None of these

6. $14^2 - 512^{1/3} + 784^{1/2}$ = ?

A. 216 B. 228 C. 238 D. 249 E. None of these

7. 1496 ÷ 34 = ? + 39

A. 3 B. 5 C. 9 D. 15 E. None of these

8. $(33)^2 - (35)^2 + (17)^2$ = ?

A. 121 B. 138 C. 153 D. 165 E. None of these

9. √2116 + √1296 – √1681 = ?

A. 12 B. 33 C. 46 D. 24 E. None of these

10. (26 × 14 – 7) ÷ 21 = ?

A. 11 B. 25 C. 33 D. 46 E. None of these

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Correct Answers:

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

Explanations:

1. ? % of (19154 – 15644) = $9^2 + 6^2$

?% of 3510 = 117

or, $\frac{? \times 3510}{117} = 100$

or, ? $= \frac{100}{30} = \frac{10}{3}$

Hence, option C is correct.

2.

$4\frac{3}{10} + 2\frac{5}{3} - 5\frac{7}{8} = ?$

$? = (4 + 2 - 5) + \frac{3}{10} + \frac{5}{3} - \frac{7}{8}$

$? = 1 + \frac{(36 + 200 - 105)}{120}$

$? = 1 + \frac{131}{120}$

$? = 2\frac{11}{120}$

Hence, option D is correct.

3. $\sqrt{1686 - 317} + \sqrt{3441 - 525} = ?$

$\sqrt{1369} + \sqrt{2916} = ?$

? = 37 + 54 = 91

Hence, option C is correct.

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4.

$\left(\frac{1}{3}\right)$ of 2529 + 42% of 1450 + 949 = $(?)^2$

843 + 609 + 949 = $(?)^2$

$(?)^2 = 2401$

? = 2401 = 49

Hence, option D is correct.

5. 7878 ÷ 26 × 13 – 333 = ?

? = 303 × 13 – 333

? = 3939 – 333

? = 3606

Hence, option D is correct.

6. $14^2 - 512^{1/3} + 784^{1/2} = ?$

$14^2 = 196$, $8^3 = 512$, $28^2 = 784$

? = 196 – 8 + 28

? = 216

Hence, option A is correct.

7. 1496 ÷ 34 = ? + 39

? = 1496 ÷ 34 – 39

? = 44 – 39

? = 5

Hence, option B is correct.

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8. $(33)^2 - (35)^2 + (17)^2 = ?$

$? = 33^2 - 35^2 + 17^2$

$? = 1089 - 1225 + 289$

$? = 153$

Hence, option C is correct.

9. $\sqrt{2116} + \sqrt{1296} - \sqrt{1681} = ?$

$46^2 = 2116,\ 36^2 = 1296,\ 41^2 = 1681$

$? = \sqrt{2116} + \sqrt{1296} - \sqrt{1681}$

$? = 46 + 36 - 41$

$? = 41$

Hence, option E is correct.

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10. $(26 \times 14 - 7) \div 21$

$? = \frac{364 - 7}{21}$

$? = \frac{357}{21} = 17$

Hence, option E is correct.

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