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The Question Bank

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

Simplification Quiz 20

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

1. 11.11% of 27.27% of 8.33% of 3564

A. 5   B. 7   C. 9   D. 8   E. None of these

2. (6160 + 12320) ÷ ? = 660

A. 35   B. 22   C. 25.5   D. 28   E. None of the above

3. $\dfrac{6}{8} + \dfrac{10}{16} + \dfrac{26}{32} + \dfrac{6}{16} = ?$

A. $\dfrac{51}{16}$ B. $\dfrac{26}{6}$ C. $\dfrac{29}{12}$ D. $\dfrac{53}{16}$ E. None of these

4. $\left(\dfrac{10 \times 10 \times 10}{4 + 4 + 4 + 4}\right) = ?$

A. 59.5   B. 50.5   C. 62.5   D. 67.5   E. 72.5

5. $\left(\dfrac{6}{4} \times \dfrac{32}{8} \times \dfrac{6}{16}\right) + \left(\dfrac{6}{16} \times \dfrac{24}{8} \times \dfrac{36}{4}\right) = ?$

A. $\dfrac{93}{67}$ B. $\dfrac{99}{8}$ C. $\dfrac{94}{8}$ D. $\dfrac{99}{13}$ E. None of these

6. ? × (1047 + 137.5) = 46195.5

A. 27.4   B. 36   C. 28.4   D. 39   E. 28

7. 36.06 × 35 − ? + 624.9 = 2323

A. 437   B. 436   C. 389   D. 463   E. None of these

8. $\sqrt[3]{175616} \times \sqrt{1936} + (36)^2 = ?$

A. 3760   B. 3860   C. 3764   D. 3770   E. None of these

9. $27^{2.5} \times ((243)^3)^? = 3^{22.5}$

A. 4   B. 3   C. 2   D. 1   E. None of these

10. $\dfrac{17}{9}$ of $\dfrac{4}{51}$ of $\dfrac{54}{7}$ of 560 = ?

A. 560   B. 650   C. 640   D. 460   E. None of these

Correct Answers:

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

Explanations:

1. 11.11% of 27.27% of 8.33% of 3564

$$= \frac{1}{9} \times \frac{3}{11} \times \frac{1}{12} \times 3564 = 9$$

Hence, option C is correct.

2. (6160 + 12320) ÷ ? = 660

$$? = \frac{6160 + 12320}{660} = \frac{18480}{660} = 28$$

Hence, option D is correct.

3.

$$\frac{6}{8} + \frac{10}{16} + \frac{26}{32} + \frac{6}{16} = ?$$

$$= \frac{24 + 20 + 26 + 12}{32} = \frac{82}{32} = \frac{41}{16}$$

Hence, option E is correct.

4.

$$\left(\frac{10 \times 10 \times 10}{4 + 4 + 4 + 4}\right) = ?$$

$$? = \left(\frac{10 \times 10 \times 10}{4 + 4 + 4 + 4}\right) = \frac{1000}{16} = 62.5$$

Hence, option C is correct.

5.

$$? = \left(\frac{6}{4} \times \frac{32}{8} \times \frac{6}{16}\right) + \left(\frac{6}{16} \times \frac{24}{8} \times \frac{36}{4}\right)$$

$$= \frac{9}{4} + \frac{81}{8} = \frac{99}{8}$$

Hence, option B is correct.

6. ? × (1047 + 137.5) = 46195.5

$? = \dfrac{46195.5}{1184.5} = 39$

Hence, option D is correct.

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7. 36.06 × 35 − ? + 624.9 = 2323
− ? = 2323 − 36.06 × 35 − 624.9
− ? = 2323 − 1262.1 − 624.9
− ? = 2323 − 1887 = 436
Therefore, ? = − 436

Hence, option E is correct.

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8. $\sqrt[3]{175616} \times \sqrt{1936} + (36)^2 = ? \Rightarrow ? = 56 \times 44 + 1296$
$\Rightarrow ? = 2464 + 1296 = 3760$
Hence, option A is correct.

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9. $27^{2.5} \times ((243)^3)^? = 3^{22.5}$
or, $(3^3)^{2.5} \times ((3^5)^3)^? = 3^{22.5}$
or, $((3)^{15})^? = 3^{22.5} \times (3)^{-7.5}$
Base are the same, so we can compare the powers
or, 15 × ? = 22.5 − 7.5
or, 15 × ? = 15
or, ? = 1
Hence, option D is correct.

10.

$\dfrac{17}{9}$ of $\dfrac{4}{51}$ of $\dfrac{54}{7}$ of 560 = ?

$? = \dfrac{17}{9} \times \dfrac{4}{51} \times \dfrac{54}{7} \times 560 = 640$

Hence, option C is correct.