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The Question Bank

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

Simplification Quiz 17

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

1. 85% of 620 + x% of 480 = 70% of 890

A. 10% B. 20% C. 35% D. 40% E. None of these

2. (624 + 146) × 2 ÷ 77 = ? ÷ (– 2)

A. 40 B. – 30 C. 25 D. – 50 E. None of these

3. $(5.25 \times 6 \times 4) \div 7 - 2 = ?^2$

A. 4 B. 6 C. 0 D. 2 E. 9

4. $(6\sqrt{6} \times 2\sqrt{3} \times 4\sqrt{2}) \div 12 = ? + 123 - 59$

A. 75 B. 45 C. 80 D. 60 E. None of these

5. $[(\sqrt{2401} + \sqrt{625}) - (29 + 5)] \div 4 = ?^{1/2}$

A. 125 B. 169 C. 144 D. 100 E. 121

6. $0.8 \times 8 \div 0.88 \times \sqrt{121} = ?$

A. 65 B. 55 C. 80 D. 90 E. None of these

7. (4326 + 3189 – 5155) = ? × 59

A. 33 B. 46 C. 96 D. 75 E. None of these

8. 636 × 5 ÷ 6 + 221 ÷ 17 × 13 = ? + 210

A. 356 B. 412 C. 590 D. 489 E. None of these

9. $\frac{1}{4}$ of $\frac{3}{2}$ of $\frac{6}{5}$ of 4820 = ? × 3

A. 623 B. 563 C. 793 D. 673 E. None of these

10. $4^{12} \times 2^8 \div 16^3 = 16^{?+3} \times 2^4$

A. 1 B. 3 C. 0 D. 5 E. None of these

Correct Answers:

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

Explanations:

1. 85% of 620 + x% of 480 = 70% of 890
527 + x × 480 ÷ 100 = 623
x × 4.8 = 623 – 527
x × 4.8 = 96
x = 20%
Hence, option B is correct.

2.
$(624 + 146) \times \frac{2}{77} = \frac{?}{-2}$

$770 \times \frac{2}{77} = \frac{?}{-2}$

20 × (– 2) = ? = – 40
Hence, option E is correct.

3.
$\frac{(5.25 \times 6 \times 4)}{7} - 2 = ?^2$

$\frac{126}{7} - 2 = ?^2$
$18 - 2 = ?^2$ $?^2 = 16$? = 4
Hence, option A is correct.

4. $\frac{6\sqrt{6} \times 2\sqrt{3} \times 4\sqrt{2}}{12} = ? + 123 - 59$

$? + 64 = \frac{6\sqrt{6} \times 2\sqrt{3} \times 4\sqrt{2}}{12}$

$? + 64 = \frac{6 \times 6 \times 2 \times 4}{12}$

? + 64 = 24
? = 24 – 64
? = – 40
Hence, option E is correct.

5. $\frac{(\sqrt{2401} + \sqrt{625} - (29 + 5)}{4} = ?^{1/2}$

$\frac{(49 + 25) - (34)}{4} = ?^{1/2}$

$\frac{74 - 34}{4} = ?^{1/2}$

$\frac{40}{4} = ?^{1/2}$

$10 = ?^{1/2}$
$? = 100$
Hence, option D is correct.

6.
$\frac{0.8 \times 8}{0.88} \times \sqrt{121} = ?$

$? = \frac{0.8 \times 8}{0.88} \times 11$

$? = \frac{80 \times 8}{88} \times 11$
$? = 80$
Hence, option C is correct.

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7. $(4326 + 3189 - 5155) = ? \times 59$
$(7515 - 5155) = ? \times 59$
$2360 = ? \times 59$
$? = 40$
Hence, option E is correct.

8.
$\frac{636 \times 5}{6} + \frac{221}{17 \times 13} = ? + 210$

$106 \times 5 + 13 \times 13 = ? + 210$
$530 + 169 = ? + 210$
$699 - 210 = ?$
$? = 489$
Hence, option D is correct.

9.

$? = \frac{5}{12} + \frac{11}{32} \div \frac{73}{48}$

$= \frac{5}{12} + \frac{11}{32} \times \frac{48}{73}$

$= \frac{5}{12} + \frac{33}{146}$

$= \frac{365 + 198}{876} = \frac{563}{876}$

Hence, option E is correct.

10.

$\frac{4^{12} \times 2^8}{16^3} = 16^{?+3} \times 2^4$

$\frac{(4^2)^6 \times (2^4)^2}{16^3} = 16^{?+3} \times 16$

$\frac{16^6 \times 16^2}{16^3} = 16^{?+3} \times 16$

$16^{6+2-3-1} = 16^{?+3}$

$4 = ? + 3$

? = 1 Hence, option A is correct.