Simplification Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

Simplification Quiz 41

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

1. $689 \times 6156 \div 18\% \text{ of } 684 = 28 \times 250 \div 8 + ? + 4300$

A. 27295 B. 29275 C. 29527 D. 29725 E. None of these

2. $\sqrt{4624} + \sqrt{?} + 12 - 43 = 137$

A. 10000 B. 9801 C. 10201 D. 10101 E. 11000

3. $189820 - 22624 + 35 \times ? - 372 \times 28 = 194440$

A. 1045 B. 1087 C. 1076 D. 1095 E. 1176

4. $39\frac{13}{17} - 47\frac{18}{34} + 23\frac{11}{17} - 2\frac{1}{34} = ?$

A. $13\frac{5}{34}$ B. $11\frac{29}{34}$ C. $29\frac{13}{34}$ D. $13\frac{29}{34}$ E. $13\frac{27}{34}$

5. $44\% \text{ of } 1950 + 82\% \text{ of } 250 + 62\% \text{ of } ? = 7883$

A. 11500 B. 1110 C. 10000 D. 11800 E. 11000

6. $42.8 \times 13.5 \times 16.2 \times ? = 2340.09$

A. 0.15 B. 0.25 C. 0.5 D. 0.75 E. 1

7. $(3.7)^{-3} \times (13.69)^{-2} \times \frac{1}{50.653} \div (13.69)^{-5} = (3.7)^{?}$

A. 0 B. 1 C. 2 D. 3 E. None of these

8. $\frac{27}{17} \text{ of } 2295 \div 9 - ? = \sqrt{729}$

A. 373 B. 375 C. 378 D. 381 E. 370

9. $486 \div ? \times 7392 \div 66 = 1008$

A. 54 B. 55 C. 52 D. 53 E. 51

10. $17.8\% \text{ of } ? = 427.2 \times 8.4\% \text{ of } 135$

A. 21784 B. 24378 C. 27216 D. 28120 E. 25315

Correct Answers:

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

Explanations:

1. 689 × 6156 ÷ 18% of 684 = 28 × 250 ÷ 8 + ? + 4300

or, 689 × 6156 ÷ 123.12 = 28 × 31.25 + ? + 4300

or, 689 × 50 = 875 + ? + 4300

∴ ? = 34450 – 5175 = 29275

Hence, option B is correct.

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2. $\sqrt{4624}$ + $\sqrt{?}$ + 12 – 43 = 137

or, $\sqrt{?}$ = 137 + 43 – 12 – $\sqrt{4624}$

or, $\sqrt{?}$ = 168 – 68 = 100

or, ? = 100 × 100 = 10000

Hence, option A is correct.

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3. 189820 – 22624 + 35 × ? – 372 × 28 = 194440

or, 167196 + 35 × ? – (370 + 2) × 28 = 194440

or, 35 × ? = 194440 – 167196 – (370 + 2) × 28

or, 35 × ? = 194440 – 167196 – 10360 + 56

or, 35 × ? = 37660

or, ? = 1076

Hence, option C is correct.

4.

$39\frac{13}{17} - 47\frac{18}{34} + 23\frac{11}{17} - 2\frac{1}{34} = ?$

$? = (39 - 47 + 23 - 2)\left(\frac{13}{17} - \frac{18}{34} + \frac{11}{17} - \frac{1}{34}\right)$

$? = (62 - 49) + \left(\frac{26 - 18 + 22 - 1}{34}\right)$

$? = 13\frac{29}{34}$

Hence, option D is correct.

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5. 44% of 1950 + 82% of 250 + 62% of ? = 7883

or, 50% of 1950 – 6% of 1950) + 100% of 250 – 10% of 250 – 8% of 250 + 62% of ? = 7883

or, 975 – 117 + 250 – 25 – 20 + 62% of ? = 7883

or, 62% of ? = 7883 – 1063

or, 62% of ? = 6820

or, $? = \frac{6820 \times 100}{62} = 11000$

Hence, option E is correct.

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6. $42.8 \times 13.5 \times 16.2 \times ? = 2340.09$

$\therefore \quad ? = \frac{2340.09}{42.8 \times 13.5 \times 16.2} = 0.25$

Hence, option B is correct.

7.

$(3.7)^{-3} \times (13.69)^{-2} \times \frac{1}{50.653} \div (13.69)^{-5} = (3.7)^{?}$

or, $(3.7)^{?} = (3.7)^{-3} \times (3.7)^{-2\times2} \times (3.7)^{-3} \times (3.7)^{10}$

$= (3.7)^{-3-4-3+10} = (3.7)^{0}$

$\therefore ? = 0$

Hence, option A is correct.

8.

$\frac{27}{17}$ of $2295 \div 9 - ? = \sqrt{729}$

$? = \frac{27}{17} \times 2295 \div 9 - 27$

$? = \frac{27 \times 135}{9} - 27$

$= 27 \times 15 - 27 = 405 - 27 = 378$

Hence, option C is correct.

9. $486 \div ? \times 7392 \div 66 = 1008$

or, $\frac{486}{?} \times \frac{7392}{66} = 1008$

$\therefore \quad ? = \frac{486 \times 7392}{66 \times 1008} = 54$

Hence, option A is correct.

10. 17.8% of ? = 427.2 × 8.4% of 135

or, $\frac{17.8 \times ?}{100} = \frac{427.2 \times 8.4 \times 135}{100}$

$\therefore \quad ? = \frac{427.2 \times 8.4 \times 135}{17.8} = 27216$

Hence, option C is correct.