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

Simplification Quiz 39

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

1. $3\frac{6}{7} \div 33.33\% \text{ of } 162 \times 2\frac{1}{2} = ?$

- A. $\frac{5}{14}$ B. $1\frac{1}{14}$ C. $2\frac{5}{7}$ D. $1\frac{5}{7}$ E. None of these

2. $49\% \text{ of } 520 + 51\% \text{ of } 480 = ?$

- A. 499.6 B. 498.6 C. 502.1 D. 505.8 E. None of these

3. $3.4 \times 1.8 \div 1.53 + 13.4 = ?$

- A. 17.8 B. 16.8 C. 17.4 D. 16.4 E. None of these

4. $17\frac{5}{9} \text{ of } 171 - 4\frac{3}{4} \text{ of } 64 = ?$

- A. 2588 B. 2698 C. 2794 D. 2928 E. None of these

5. $52.24 + 62.18 + 84.48 + 12.21 = ?$

- A. 213.21 B. 215.21 C. 211.11 D. 213.11 E. None of these

6. $(1.6)^2 \div (0.8)^2 = [(2.4)^2 \div (0.4)^2] - ?$

- A. 24 B. 32 C. 40 D. 36 E. None of these

7. $8\sqrt{8} \times 8^3 \div 8^{-5/2} = 2^?$

- A. 24 B. 12 C. 18 D. 21 E. None of these

8. $(0.6)^2 \times 5 = ? - 348 \div 24$

- A. 16.3 B. 13.9 C. 15.2 D. 17.2 E. None of these

9. $?% \text{ of } (584.2 - 244.2) = (9)^2 + 21$

- A. 40 B. 45 C. 30 D. 60 E. None of these

10. $\sqrt{2^?} = (8^2 \times 5^2) \div (200\sqrt{2})$

- A. 6 B. 4 C. 5 D. 8 E. None of these

Correct Answers:

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

Explanations:**1.**

$$3\frac{6}{7} \div 33.33\% \text{ of } 162 \times 2\frac{1}{2} = ?$$

$$? = \frac{27}{7} \div \frac{1}{3} \text{ of } 162 \times \frac{5}{2}$$

$$? = \frac{27}{7} \times \frac{1}{54} \times \frac{5}{2} = \frac{5}{28}$$

Hence, option E is correct.

2. 49% of 520 + 51% of 480 = ?

$$? = 49 \times \frac{520}{100} + 51 \times \frac{480}{100}$$

$$? = 254.8 + 244.8 = 499.6$$

Hence, option A is correct.

Alternate Solution:-

$$49\% \text{ of } 520 + 51\% \text{ of } 480 = ?$$

$$? = 50\% \text{ of } 520 - 1\% \text{ of } 520 + 50\% \text{ of } 480 + 1\% \text{ of } 480$$

$$? = 50\% \text{ of } (520 + 480) - 1\% \text{ of } (520 - 480)$$

$$? = 500 - 0.4 = 499.6$$

Hence option A is correct

3. $3.4 \times 1.8 \div 1.53 + 13.4 = ?$

$$? = 3.4 \times \frac{1.8}{1.53} + 13.4$$

$$? = \frac{34 \times 18}{153} + 13.4$$

$$? = 4 + 13.4 = 17.4$$

Hence, option C is correct.

4.

$$17\frac{5}{9} \text{ of } 171 - 4\frac{3}{4} \text{ of } 64 = ?$$

$$? = \frac{158}{9} \times 171 - \frac{19}{4} \times 64$$

$$? = 158 \times 19 - 19 \times 16$$

$$? = 19 (158 - 16)$$

$$? = 142 \times 19 = 2698$$

Hence, option B is correct.

5. $? = 52.24 + 62.18 + 84.48 + 12.21$

$$? = 211.11$$

Hence, option C is correct.

6. $(1.6)^2 \div (0.8)^2 = [(2.4)^2 \div (0.4)^2] - ?$

$$= \frac{1.6 \times 1.6}{0.8 \times 0.8} = \frac{2.4 \times 2.4}{0.4 \times 0.4} - ?$$

$$\text{Or, } 4 = 36 - ?$$

$$\text{or, } ? = 36 - 4 = 32$$

Hence, option B is correct.

7. $8\sqrt{8} \times 8^3 \div 8^{-5/2} = 2^?$

$$\text{or, } 8 \times 8^{1/2} \times 8^3 \div 8^{-5/2} = 2^?$$

$$\text{or, } 8^{1+1/2+3+5/2} = 2^?$$

$$\text{or, } 2^{3(1+1/2+3+5/2)} = 2^?$$

As the bases are equal, we can compare indices,

$$\therefore ? = 3 \left(1 + \frac{1}{2} + 3 + \frac{5}{2} \right) = \frac{3(2 + 1 + 6 + 5)}{2} = \frac{3(14)}{2}$$

$$\text{or, } ? = 3 \times 7 = 21$$

Hence, option D is correct.

8. $(0.6)^2 \times 5 = ? - 348 \div 24$

or, $0.36 \times 5 = ? - 14.5$

or, $? = 14.5 + 1.8 = 16.3$

Hence, option A is correct.

9. $? \% \text{ of } (584.4 - 244.2) = (9)^2 + 21$

Or, $\frac{? \times 340}{100} = 81 + 21 = 102$

$\therefore ? = \frac{102 \times 100}{340} = 30$

Hence, option C is correct.

10. $\sqrt{2^?} = (8^2 \times 5^2) \div (200\sqrt{2})$

$= \frac{64 \times 25}{(200\sqrt{2})} = \frac{8}{\sqrt{2}} = \frac{8}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} = 4\sqrt{2}$

$\sqrt{2^?} = \sqrt{2^5}$

$\therefore ? = 5$

Hence, option C is correct.

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