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

Simplification Quiz 31

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

1. $784 \div 14 + 598 \div 13 + ? = 99\% \text{ of } 2500$

- A. 2475 B. 2373 C. 2285 D. 2565 E. None of these

2. $221 \div 13 \times \sqrt{576} + 10^2 = ?$

- A. 628 B. 428 C. 408 D. 508 E. None of these

3. $15^2 + 12^2 = 11^2 + ?$

- A. 258 B. 248 C. 262 D. 282 E. None of these

4. $6 \times 6 \times 6 \times 6 \times 6 + 6 \times 6 \times 6 \times 6 = 81 \times 3.5 \times ?$

- A. 64 B. 16 C. 32 D. 16 E. None of these

5. $18 \frac{1}{3} \text{ of } 18 + 19 \frac{1}{4} \text{ of } 28 = 5.5 \times ?$

- A. 198 B. 68 C. 158 D. 136 E. None of these

6. $3^{-2} + 22 \frac{2}{9} \% \text{ of } 364 = ?$

- A. 243 B. 57 C. 105 D. 81 E. None of these

7. $\sqrt{1024} \times \left(\frac{1}{2^{-5}}\right) + 8^2 \times 4 = ? \times 2^6$

- A. 12 B. 34 C. 6 D. 36 E. None of these

8. $3 \frac{2}{3} \times 4 \frac{1}{5} \times \frac{3 \frac{1}{5}}{2 \frac{1}{5}} = ?$

- A. 54.2 B. 68.4 C. 22.4 D. 44.8 E. None of these

9. $15^2 + 17^2 - ? = 21^2$

- A. -63 B. -53 C. 53 D. 73 E. None of these

10. $0.5 \times 8.4 + 3.5 \times 12.2 + 0.25 \times 10^2 = ?$

- A. 128.1 B. 71.9 C. 52.7 D. 107.9 E. None of these

Correct Answers:

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

Explanations:

1. $784 \div 14 + 598 \div 13 + ? = 99\% \text{ of } 2500$

$$\frac{784}{14} + \frac{598}{13} + ? = 99 \times \frac{2500}{100}$$

$$56 + 46 + ? = 2475$$

$$? = 2475 - 102 = 2373$$

Hence, option B is correct.

2. $221 \div 13 \times \sqrt{576} + 10^2 = ?$

$$221 \div 13 \times \sqrt{576} + 100$$

$$? = 17 \times 24 + 100$$

$$? = 408 + 100$$

$$? = 508$$

Hence, option D is correct.

3. $15^2 + 12^2 = 11^2 + ?$

$$225 + 144 - 121 = ?$$

$$? = 248$$

Hence, option B is correct.

4. $6 \times 6 \times 6 \times 6 \times 6 + 6 \times 6 \times 6 \times 6 = 81 \times 3.5 \times ?$

$$6^4 (6 + 1) = 81 \times 3.5 \times ?$$

$$2^4 \times 3^4 \times 7 = 3^4 \times \frac{7}{2} \times ?$$

$$? = 2^5 = 32$$

Hence, option C is correct.

5.

$$18 \frac{1}{3} \text{ of } 18 + 19 \frac{1}{4} \text{ of } 28 = 5.5 \times ?$$

$$\frac{55}{3} \text{ of } 18 + \frac{77}{4} \text{ of } 28 = 5.5 \times ?$$

$$55 \times 6 + 77 \times 7 = 5.5 \times ?$$

$$11 (30 + 49) = 5.5 \times ?$$

$$? = 79 \times 2 = 158$$

Hence, option C is correct.

6.

$$\Rightarrow \frac{\sqrt{1024 + (16 \times 13)}}{\sqrt{576}} - 4 + \frac{3}{7} \times 1092 = ?$$

$$\Rightarrow \frac{32 + 208}{24} - 4 + 3 \times 156 = ?$$

$$\Rightarrow 10 - 4 + 468 = ?$$

$$\Rightarrow ? = 474$$

Hence, option B is correct.

7.

$$3^{-2} + 22 \frac{2}{9} \% \text{ of } 364 = ?$$

$$\frac{1}{9} + \frac{200}{9} \% \text{ of } 364 = ?$$

$$\frac{1}{9} + \frac{728}{9} = ?$$

$$\frac{729}{9} = 81 = ?$$

$$? = 81$$

Hence, option D is correct.

8.

$$\sqrt{1024} \times \left(\frac{1}{2^{-5}}\right) + 8^2 \times 4 = ? \times 2^6$$

$$32 \times 2^5 + 2^6 \times 2^2 = ? \times 2^6$$

$$2^6 (16 + 4) = ? \times 2^6$$

$$? = 20$$

Hence, option E is correct.

9. $15^2 + 17^2 - ? = 21^2$
 $225 + 289 - ? = 441$
 $? = 514 - 441 = 73$
Hence, option D is correct.

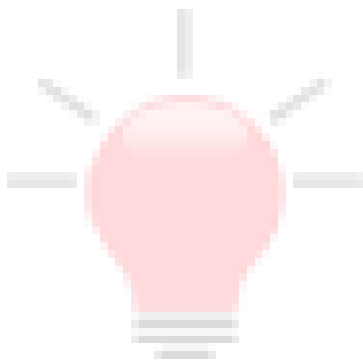
10. $0.5 \times 8.4 + 3.5 \times 12.2 + 0.25 \times 10^2 = ?$

$$? = \frac{1}{2} \times 8.4 + \frac{7}{2} \times 12.2 + \frac{1}{4} \times 100$$

$$? = 4.2 + 42.7 + 25$$

$$? = 71.9$$

Hence, option B is correct.



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