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

Simplification Quiz 4

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

1. $[(3)^3 \times (5)^4] \div (3)^5 = ?$

- A. 30.44 B. 39.55 C. 35.44 D. 69.44 E. None of these

2. $(608.40 \times ?) \div 225 + 37 = 375$

- A. 115 B. 135 C. 130 D. 125 E. 132

3. $12.25 \times 7.2 + 84.33 = ?$

- A. 182.51 B. 177.44 C. 174.33 D. 172.53 E. None of these

4. $\sqrt{?} + 416 = (60\% \text{ of } 920) - 110$

- A. 576 B. 676 C. 784 D. 1024 E. 1156

5. $(14896 \div 19) \div 16 = ?$

- A. 49 B. 54 C. 58 D. 62 E. 67

6. $[(4)^3 \times (5)^4] \div (4)^5 = ?$

- A. 30.0925 B. 39.0625 C. 35.6015 D. 29.0825 E. None of these

7. $8195 \div 745 + ? \times 12 = 7847$

- A. 648 B. 593 C. 601 D. 653 E. None of these

8. $7 \frac{2}{7} \text{ of } 189 + 452 = 2000 - ?$

- A. 183 B. 164 C. 170 D. 198 E. None of these

9. $(45)^2 + (21)^2 = (?)^2 + 257$

- A. 51 B. 49 C. 45 D. 47 E. None of these

10. $65\% \text{ of } 400 + \sqrt{?} = 44\% \text{ of } 800 - 12\% \text{ of } 400$

- A. 1936 B. 44 C. 2115 D. 46 E. None of these

Correct Answers:

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

Explanations:

1. $[(3)^3 \times (5)^4] \div (3)^5 = ?$

$$? = \frac{3^3 \times 5^4}{3^5} = \frac{5^4}{3^2} = \frac{625}{9} = 69.44$$

Hence, option D is correct.

2.

$$\frac{608.40 \times ?}{225} + 37 = 375$$

$$\Rightarrow 608.40 \times ? = (375 - 37) \times 225 = 76050 \Rightarrow ? = 125$$

Hence, option D is correct.

3. $12.25 \times 7.2 + 84.33 = 88.2 + 84.33 = 172.53$

Hence, option D is correct.

4. $\sqrt{?} + 416 = (60\% \text{ of } 920) - 110$

$$\Rightarrow \sqrt{?} = (50\% \text{ of } 920 + 10\% \text{ of } 920) - 110 - 416$$

$$\Rightarrow \sqrt{?} = (460 + 92) - 526$$

$$\Rightarrow \sqrt{?} = 552 - 526 = 26$$

$$\Rightarrow ? = 26^2 = 676$$

Hence, option B is correct.

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5. $(14896 \div 19) \div 16 = ?$

$$\Rightarrow ? = \frac{14896}{19} \div 16$$

$$\Rightarrow ? = \frac{14896}{19} \div 16 \Rightarrow \frac{784}{16} = 49$$

Hence, option A is correct.

6. $[(4)^3 \times (5)^4] \div (4)^5 = ?$

$$? = \frac{4^3 \times 5^4}{4^5} = \frac{5^4}{4^2} = \frac{625}{16} = 39.0625$$

Hence, option B is correct.

7. $8195 \div 745 + ? \times 12 = 7847$

$$\text{or, } ? \times 12 = 7847 - \frac{8195}{745} = 7847 - 11$$

$$\text{or, } ? \times 12 = 7836$$

$$\therefore ? = 653.$$

Hence, option D is correct.

8.

$$7\frac{2}{7} \text{ of } 189 + 452 = 2000 - ?$$

$$= \frac{51}{7} \text{ of } 189 + 452 = 2000 - ?$$

$$\text{or, } ? = 2000 - (1377 + 452)$$

$$\therefore ? = 2000 - 1829 = 171.$$

Hence, option E is correct.

9. $(45)^2 + (21)^2 = (?)^2 + 257$

or, $(?)^2 = (45)^2 + (21)^2 - 257$

or, $(?)^2 = 2025 + 441 - 257 = 2209.$

or, $? = \sqrt{2209} = 47$

Hence, option D is correct.

10. $65\% \text{ of } 400 + \sqrt{?} = 44\% \text{ of } 800 - 12\% \text{ of } 400$

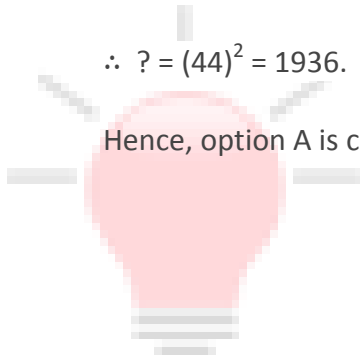
$\Rightarrow (50\% \text{ of } 400 + 10\% \text{ of } 400 + 5\% \text{ of } 400) + \sqrt{?} = (50\% \text{ of } 800 - 6\% \text{ of } 800) - 12\% \text{ of } 400$

$\Rightarrow (200 + 40 + 20) + \sqrt{?} = (400 - 48) - 48$

or, $\sqrt{?} = 352 - 48 - 260 = 44$

$\therefore ? = (44)^2 = 1936.$

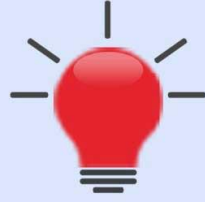
Hence, option A is correct.



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