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

Simplification Quiz 40

Direction: What value should come in place of question mark?

(1). $86 - (86)^2 + 86 \times (86 + 86 \div 0.86) = ?$

A. 9696 B. 8486 C. 8686

D. 6844 E. None of these

(2). $? = [(7)^{2.7} \times (343)^{1.5}]^{1/3}$

A. $7^{3.5}$ B. $7^{2.4}$ C. $7^{1.4}$

D. $7^{0.4}$ E. None of these

(3). $\frac{262144}{4096} \times \frac{32768}{512} + ? = 5020.8$

A. 924.8 B. 634.8 C. 124.8

D. 1024.4 E. None of these

(4). $(49)^{16} \div (343)^8 \times (2401)^3 \times 49 = 7^?$

A. 20 B. 21 C. 22

D. 23 E. None of these

(5). $6482.1 \times 0.02 + 2281.7 - ? = 882.321 + 1439.31$

A. 58.191 B. 39.911 C. 89.711

D. 93.611 E. None of these

(6). 33.33% of 180 + 66.67% of 321 =? of 548

A. 2/7 B. 1/2 C. 4/7

D. 3/7 E. None of these

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7. $(0.6)^3 \times 600 \div 6000$ of $(0.6)^2$ =?

A. 6/50 B. 3/50 C. 2/50

D. 1 E. None of these

8. **11.11% of 27.27% of 8.33% of 3564 =?**

A. 5 B. 7 C. 9

D. 8 E. None of these

9. $\sqrt{11449} \times \sqrt{6241} - 54^2 = \sqrt{2} + 74^2$

A. 3844 B. 3721 C. 3481

D. 3638 E. None of these

10. $(3\sqrt{8} + \sqrt{8}) \times (8\sqrt{8} + 7\sqrt{8}) - 98 = ?$

A. 2√8 B. 8√8 C. 382

D. 386 E. None of these

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Correct answers:

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

Explanations:

1.

$86 - (86)^2 + 86 \times (86 + 86 \div 0.86) = ?$

$? = 86 - (86)^2 + 86 \times (86 + 100)$

$? = 86 - (86)^2 + 86 \times 186$

$? = 86\ (1 - 86 + 186)$

$? = 86\ (101)$

$? = 8686$

Hence, option C is correct.

2.

$? = [(7)^{2.7} \times (343)^{1.5}]^{1/3}$

$? = (7)^{2.7\times(1/3)} \times (7)^{3\times1.5\times(1/3)}$

$? = (7)^{2.7\times(1/3)} \times (7)^{3\times1.5\times(1/3)}$

$? = 7^{0.9} \times 7^{1.5} = 7^{2.4}$

Hence, option B is correct.

3.

$$\frac{262144}{4096} \times \frac{32768}{512} + ? = 5020.8$$

$$\therefore \quad \frac{8^6}{8^4} \times \frac{8^5}{8^3} + ? = 5020.8$$

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$\therefore\ 8^4 + ? = 5020.8$

$\therefore ? = 5020.8 - 4096 = 924.8$

Hence, option A is correct.

4.

$(49)^{16} \div (343)^8 \times (2401)^3 \times 49 = 7^?$

$\therefore\ (7^2)^{16} \div (7^3)^8 \times (7^4)^3 \times 7^2 = 7^?$

$\therefore\ 7^{32} \div 7^{24} \times 7^{12} \times 7^2 = 7^?$

$\therefore\ 7^{32-24+12+2} = 7^?$

$\therefore\ 7^{22} = 7^?$

$\therefore ? = 22$

Hence, option C is correct.

5.

$6482.1 \times 0.02 + 2281.7 - ? = 882.321 + 1439.31$

$\therefore\ 129.642 + 2281.7 - ? = 2321.631$

$\therefore\ 2411.342 - ? = 2321.631$

$\therefore ? = 89.711$

Hence, option C is correct.

6.

33.33% of 180 + 66.67% of 321 =? of 548

$\Rightarrow \frac{1}{3}$ of 180 + $\frac{2}{3}$ of 321 =? of 548

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$\Rightarrow$ 60 + 214 =? × 548

$\Rightarrow$ 274 =? × 548

$\Rightarrow ? = \frac{274}{548} = \frac{1}{2}$

Hence, option B is correct.

7.

$(0.6)^3 \times 600 \div 6000$ of $(0.6)^2$ =?

Applying the BODMAS, we get

$? = (0.6)^3 \times 600 \div (6000 \times 0.6 \times 0.6)$

$? = \frac{0.6 \times 0.6 \times 0.6 \times 600}{6000 \times 0.6 \times 0.6}$

$? = \frac{6}{100} = \frac{3}{50} = \frac{3}{50}$

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Hence, option B is correct.

8.

11.11% of 27.27% of 8.33% of 3564 =?

$? = \frac{1}{9} \times \frac{3}{11} \times \frac{1}{12} \times 3564 = 9$

Hence, option C is correct.

9.

$11449 \times 6241 - (54)^2 = ? + (74)^2$

$\Rightarrow 107 \times 79 - 2916 = ? + 5476$

⇒ 8453 – 2916 – 5476 =?

⇒ 61 =?

⇒? = 61^2 = 3721

Hence, option B is correct.

10.

$\left(3\sqrt{\boldsymbol{8}} + \sqrt{\boldsymbol{8}}\right) \times \left(8\sqrt{\boldsymbol{8}} + 7\sqrt{\boldsymbol{8}}\right) - 98 = ?$

$\Rightarrow \left[\sqrt{\boldsymbol{8}} \times 4 \times \sqrt{\boldsymbol{8}} \times 15\right] - 98$

⇒ [8 × 4 × 15] – 98

⇒ 480 – 98 = 382

Hence, option C is correct.

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