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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).  $33.33\% \text{ of } 180 + 66.67\% \text{ of } 321 = ? \text{ of } 548$

- A.  $2/7$                               B.  $1/2$                               C.  $4/7$   
D.  $3/7$                               E. None of these

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

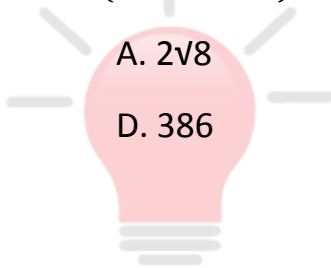
A.  $2\sqrt{8}$

B.  $8\sqrt{8}$

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.**

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

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

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

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

Hence, option B is correct.

**3.**

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

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



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

$$\therefore ? = 5020.8 - 4096 = 924.8$$

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.**

$$33.33\% \text{ of } 180 + 66.67\% \text{ of } 321 = ? \text{ of } 548$$

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

$$\Rightarrow 60 + 214 = ? \times 548$$

$$\Rightarrow 274 = ? \times 548$$

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

Hence, option B is correct.

**7.**

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

Applying the BODMAS, we get

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

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

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

Hence, option B is correct.

**8.**

$$11.11\% \text{ of } 27.27\% \text{ of } 8.33\% \text{ of } 3564 = ?$$

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

Hence, option C is correct.

**9.**

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

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

$$\Rightarrow 8453 - 2916 - 5476 = ?$$

$$\Rightarrow 61 = ?$$

$$\Rightarrow ? = 61^2 = 3721$$

Hence, option B is correct.

**10.**

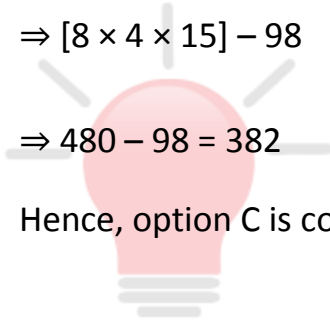
$$(3\sqrt{8} + \sqrt{8}) \times (8\sqrt{8} + 7\sqrt{8}) - 98 = ?$$

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

$$\Rightarrow [8 \times 4 \times 15] - 98$$

$$\Rightarrow 480 - 98 = 382$$

Hence, option C is correct.



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