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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 38

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

1.  $38\% \text{ of } 430 + 54\% \text{ of } 890 = ?$

- A. 624                      B. 634                      C. 644                      D. 654                      E. None of these

2.  $\frac{1}{5} \text{ of } 645 + 7\frac{1}{3} \text{ of } 33 - 3\frac{3}{4} \text{ of } ? = 10\% \text{ of } (-1090)$

- A. 124                      B. 132                      C. 136                      D. 140                      E. None of these

3.  $126.543 + 12.3421 + 28.4528 + 19.1919 = ?$

- A. 186.5298                      B. 86.5798                      C. 174.3608                      D. 72.6411                      E. None of these

4.  $(2^{-3} + 12.5\% \text{ of } 624) \frac{1}{2^{-2}} = ?$

- A. 618.25                      B. 312.5                      C. 356.25                      D. 324.5                      E. None of these

5.  $1665 \div 37 \times \frac{1}{3} \text{ of } 22 + 10^2 = ?$

- A. 470                      B. 530                      C. 440                      D. 430                      E. None of these

6.  $52\% \text{ of } 328 + 48\% \text{ of } 468 = ?$

- A. 395.2                      B. 398.6                      C. 387.20                      D. 380.82                      E. None of these

7.  $(3^3 + 6.25\% \text{ of } ?) \frac{1}{4^{-2}} = 8^2 \times 3^2$

- A. 160                      B. 176                      C. 144                      D. 128                      E. None of these

8.  $3\frac{2}{5} \text{ of } 580 + 7\frac{1}{7} \text{ of } 147 + 3\frac{1}{3} \text{ of } 603 = ?$

- A. 5032                      B. 5642                      C. 4842                      D. 5582                      E. None of these

9.  $248.44 - 43.28 + 54.86 - 12.24 + 120.22 = 25\% \text{ of } ?$

- A. 1232                      B. 1648                      C. 1884                      D. 1412                      E. None of these

10.  $\frac{6.25\% \text{ of } 4096}{2^2+2^2} + 1\frac{1}{8} \text{ of } 3^2 = 10\% \text{ of } 100 \times ?$

- A. 42.125                      B. 4.2125                      C. 421.25                      D. 482.25                      E. None of these

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
C	E	A	B	D	A	C	A	E	B

**Explanations:**

**1.**  $38\% \text{ of } 430 + 54\% \text{ of } 890 = ?$

$$163.40 + 480.60 = ?$$

$$? = 644$$

Hence, option C is correct.

**2.**

$$\frac{645}{5} + \frac{22}{3} \times 33 - \frac{15}{4} \times ? = -109$$

$$129 + 242 + 109 = \frac{15}{4} \times ?$$

$$\Rightarrow 480 = \frac{15}{4} \times ?$$

$$? = 128$$

Hence, option E is correct.

**3.**  $126.543 + 12.3421 + 28.4528 + 19.1919 = 186.5298$

Hence, option A is correct.

**4.**

$$\left(\frac{1}{2^3} + 12.5 \times \frac{624}{100}\right) \times 4 = \left(\frac{1}{8} + \frac{624}{8}\right) \times 4 = \frac{625}{2} = 312.5$$

Hence, option B is correct.

**5.**

$$\frac{1665}{37} \times \frac{22}{3} + 100 = 45 \times \frac{22}{3} + 100 = 15 \times 22 + 100$$

$$= 330 + 100 = 430$$

Hence, option D is correct.

6.  $?$  = 52% of 328 + 48% of 468

$$? = 52 \times \frac{328}{100} + 48 \times \frac{468}{100}$$

$$? = 170.56 + 224.64 = 395.2$$

Hence, option A is correct.

**Alternate Solution:-**

$$? = 52\% \text{ of } 328 + 48\% \text{ of } 468$$

$$? = 50\% \text{ of } 328 + 2\% \text{ of } 328 + 50\% \text{ of } 468 - 2\% \text{ of } 468$$

$$? = 50\% \text{ of } (328 + 468) - 2\% \text{ of } (468 - 328)$$

$$? = 398 - 2.8$$

$$? = 395.2$$

Hence, option A is correct.

7.

$$(3^3 + 6.25\% \text{ of } ?) \frac{1}{4^{-2}} = 8^2 \times 3^2$$

$$\left(27 + \frac{6.25}{100} \times ?\right) 4^2 = 64 \times 9$$

$$\left(27 + \frac{?}{16}\right) = 9 \times 4$$

$$27 \times 16 + ? = 16 \times 36$$

$$X = 16 \times 36 - 27 \times 16 = 144$$

Hence, option C is correct.

8.

$$3\frac{2}{5} \text{ of } 580 + 7\frac{1}{7} \text{ of } 147 + 3\frac{1}{3} \text{ of } 603 = ?$$

$$\frac{17}{5} \times 580 + \frac{50}{7} \times 147 + \frac{10}{3} \times 603 = ?$$

$$? = 17 \times 116 + 50 \times 21 + 10 \times 201$$

$$= 1972 + 1050 + 2010 = 5032$$

Hence, option A is correct.

9.  $248.44 + 54.86 + 120.22 - 43.28 - 12.24 = ?$

$$? = 423.52 - 55.52 = 368 = 25 \times \frac{?}{100}$$

$$? = 368 \times 4 = 1472$$

Hence, option E is correct.

10.

$$\frac{6.25\% \text{ of } 4096}{2^2 + 2^2} + 1 \frac{1}{8} \text{ of } 3^2 = 10\% \text{ of } 100 \times ?$$

$$\frac{\left(\frac{6.25}{100} \times 4096\right)}{8} + \frac{9}{8} \times 9 = 10 \times ?$$

$$\frac{\left(\frac{4096}{16}\right)}{8} + \frac{81}{8} = 10 \times ?$$

$$\frac{256}{8} + \frac{81}{8} = 10 \times ? = \frac{337}{8} = 10 \times ?$$

$$? = \frac{42.125}{10} = 4.2125$$

Hence, option B is correct.

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