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## Simplification Questions for IBPS PO PRE and SBI PO PRE Exams.

### Simplification Quiz 9

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

1.  $40\% \text{ of } 375 \div \sqrt[3]{512} \times 30 = 4500 \div ?$

- A. 8                      B. 10                      C. 9                      D. 12                      E. 15

2.  $?^3 - 300 - 43 + 4 = 148 \div 37$

- A. 12                      B. 7                      C. 5                      D. 2                      E. None of these

3.  $299 \div \sqrt{169} \times 11 - \sqrt{361} = ?^2 + 38$

- A. 11                      B. 8                      C. 16                      D. 14                      E. None of these

4.  $42.5\% \text{ of } 750 = ?\% \text{ of } 43 - 26\% \text{ of } ?$

- A. 1525                      B. 2152                      C. 1850                      D. 1625                      E. None of these

5.  $2\frac{11}{13} - 3\frac{1}{13} + 5\frac{1}{4} = ? \times 87$

- A.  $\frac{4}{15}$                       B.  $\frac{6}{13}$                       C.  $\frac{3}{52}$                       D.  $\frac{21}{52}$                       E. None of these

6.  $32.5\% \text{ of } 1388 - \sqrt{4096} \div 4 \times \sqrt{529} = ?$

- A. 65.8                      B. 72.6                      C. 83.1                      D. 69.2                      E. 55.9

7.  $94.5 \times 512 \div \sqrt[3]{343} \div 6.4 = ?^2 + 56$

- A. -56                      B. 44                      C. 25                      D. -32                      E. 35

8.  $2\frac{3}{7} \times \left[ \left( 11\frac{2}{6} \div \left( \frac{25}{18} + 2\frac{5}{6} - \frac{7}{36} \right) \right) \right] = ? \div 72.5 \times 204$

- A.  $\frac{17}{7}$                       B.  $\frac{15}{2}$                       C.  $\frac{21}{5}$                       D.  $\frac{19}{3}$                       E. None of these

9.  $(2477.68 + 1254.87 - 3647.89) = ? \times 13 - 84.34$

- A. 21                      B. 17                      C. 11                      D. 25                      E. None of these

10.  $27.5\% \text{ of } 256 - ?\% \text{ of } 340 = -31.6$

- A. 25%                      B. 35%                      C. 27%                      D. 30%                      E. 16%

**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>
A	B	D	E	C	C	D	A	E	D

**Explanations:**

**1.**  $40\% \text{ of } 375 \div \sqrt[3]{512} \times 30 = 4500 \div ?$

$$150 \div 8 \times 30 = 4500 \div ?$$

$$? = 4500 \times 8 \div 150 \div 30$$

$$? = 8$$

Hence, option A is correct.

**2.**

$$?^3 - 300 - 43 + 4 = \frac{148}{37}$$

$$?^3 - 343 + 4 = 4$$

$$?^3 = 343$$

$$? = 7$$

Hence, option B is correct.

**3.**  $\frac{299}{\sqrt{169}} \times 11 - \sqrt{361} = ?^2 + 38$

$$\frac{299}{13} \times 11 - 19 = ?^2 + 38$$

$$23 \times 11 - 19 - 38 = ?^2$$

$$253 - 57 = ?^2$$

$$?^2 = 196$$

$$? = 14$$

Hence, option D is correct.

4. 42.5% of 750 = ?% of 43 – 26% of ?

$$85\% \text{ of } 375 = \frac{43 \times ? - 26 \times ?}{100}$$

$$85\% \text{ of } 375 = 17 \times \frac{?}{100}$$

$$85 \times \frac{375}{17} = ?$$

$$5 \times 375 = ?$$

$$? = 1875$$

Hence, option E is correct.

5.

$$2\frac{11}{13} - 3\frac{1}{13} + 5\frac{1}{4} = ? \times 87$$

$$(2 - 3 + 5) + \frac{11}{13} - \frac{1}{13} + \frac{1}{4} = ? \times 87$$

$$4 + \frac{44 - 4 + 13}{52} = ? \times 87$$

$$4 + \frac{53}{52} = ? \times 87$$

$$5\frac{1}{52} = ? \times 87$$

$$\frac{261}{52} = ? \times 87$$

$$\frac{261}{52 \times 87} = ?$$

$$? = \frac{3}{52}$$

Hence, option C is correct.

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6.  $32.5\%$  of  $1388 - 4096 \div 4 \times 529 = ?$

$? = 65\%$  of  $694 - 64 \div 4 \times 23$

$? = 451.1 - 16 \times 23$

$? = 451.1 - 368$

$? = 83.1$

Hence, option C is correct.

7.  $94.5 \times 512 \div \sqrt[3]{343} \div 6.4 = ?^2 + 56$

$$945 \times \frac{512}{7 \times 64} = ?^2 + 56$$

$$135 \times 8 - 56 = ?^2$$

$$1080 - 56 = ?^2$$

$$?^2 = 1024$$

$$? = \pm 32$$

Hence, option D is correct.

8.

$$2\frac{3}{7} \times \left[ \left( 11\frac{2}{6} \div \left( \frac{25}{18} + 2\frac{5}{6} - \frac{7}{36} \right) \right) \right] = ? \div 72.5 \times 204$$

$$\text{Or } \frac{17}{7} \times \left[ \left( \frac{68}{6} \div \left( \frac{25}{18} + \frac{17}{6} - \frac{7}{36} \right) \right) \right] = ? \div 72.5 \times 204$$

$$\text{Or } \frac{17}{7} \times \left[ \frac{68}{6} \div \frac{50 + 102 - 7}{36} \right] = ? \div 72.5 \times 204$$

$$\text{Or } \frac{17}{7} \times \frac{68}{6} \div \frac{145}{36} = ? \div 72.5 \times 204$$

$$\text{Or } \frac{17}{7} \times \frac{68}{6} \times \frac{36}{145} = ? \div 72.5 \times 204$$

$$? = \frac{17}{7} \times \frac{68}{6} \times \frac{36}{145} \times 72.5 \div 204$$

$$? = \frac{17}{7}$$

Hence, option A is correct.

**9.**  $(2477.68 + 1254.87 - 3647.89) = ? \times 13 - 84.34$

$$(3732.55 - 3647.89) = ? \times 13 - 84.34$$

$$84.66 + 84.34 = ? \times 13$$

$$169 \div 13 = ?$$

$$? = 13$$

Hence, option E is correct.

**10.**  $27.5\% \text{ of } 256 - ?\% \text{ of } 340 = -31.6$

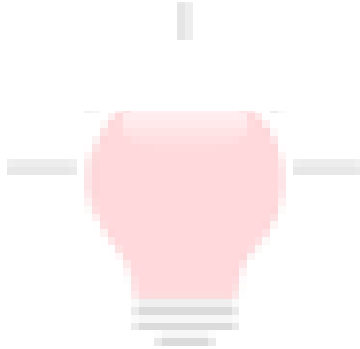
$$55\% \text{ of } 128 - ?\% \text{ of } 340 = -31.6$$

$$70.4 + 31.6 = 3.40 \times ?$$

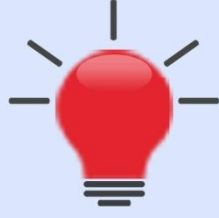
$$102 = 3.40 \times ?$$

$$? = \frac{102}{3.4} = 30\%$$

Hence, option D is correct.



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