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## Simplification Questions for Bank Exams.

### Simplification Quiz 6

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

1.  $6^3 \times 3^4 \div 9^3 + ?^2 = 7^2$

- A. 4                      B. 7                      C. 5                      D. 6                      E. 8

2.  $70\% \text{ of } 1680 + ?\% \text{ of } 1750 = 55\% \text{ of } 2820 - 886$

- A. 36                      B. 34                      C. 28                      D. 38                      E. None of these

3.  $326 \times 14 - 12 \times 88 + (49)^2 = ?$

- A. 5110                      B. 5909                      C. 5809                      D. 6909                      E. None of these

4.  $46\% \text{ of } 1250 + ?\% \text{ of } 4680 = 1183.4$

- A. 18                      B. 15                      C. 22                      D. 24                      E. 13

5.  $8\frac{1}{2} + 4\frac{2}{7} = 5\frac{1}{2} + ?$

- A.  $8\frac{1}{7}$                       B.  $6\frac{1}{7}$                       C.  $7\frac{2}{7}$                       D.  $5\frac{1}{7}$                       E.  $4\frac{2}{7}$

6.  $6561 \div 9 \div 81 = ?$

- A. 1                      B. 18                      C. 4                      D. 81                      E. 9

7.  $\sqrt{1827 \div 29 \div 7 + 567 \div 21} = ?$

- A. 7                      B. 4                      C. 6                      D. 9                      E. 36

8.  $\frac{21}{25} \div \frac{9}{20} \times \frac{5}{12} \div \frac{10}{17} = ?$

- A. 2.12                      B. 5.42                      C. 6.66                      D. 1.32                      E. None of these

9.  $9.6 \times 3.6 + 7.2 + 10.8 \text{ of } \frac{1}{18} - \frac{1}{10} = ?$

- A. 42.26                      B. 24.26                      C. 40                      D. 45.26                      E. None of these

10.  $\sqrt{13^2 + 168 \div 24 - 3^3 + 107} = (?)^2$

- A. 2                      B. 256                      C. 16                      D. 4                      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	B	E	C	E	C	D	A	D

**Explanations:**

**1.**  $6^3 \times 3^4 \div 9^3 + ?^2 = 7^2$

$$216 \times 81 \div 729 + ?^2 = 49$$

$$216 \times 81 \times \frac{1}{729} + ?^2 = 49$$

$$24 + ?^2 = 49$$

$$?^2 = 49 - 24 = 25 = 5^2$$

$$\therefore ? = 5$$

Hence, option C is correct.

**2.**  $70\% \text{ of } 1680 + ?\% \text{ of } 1750 = 55\% \text{ of } 2820 - 886$

$$\frac{70}{100} \times 1680 + \frac{?}{100} \times 1750 = \frac{55}{100} \times 2820 - 886$$

$$1176 + \frac{?}{10} \times 175 = 1551 - 886 = 665$$

$$\frac{?}{10} \times 175 = 665 - 1176 = -511$$

$$? = \frac{-511 \times 10}{175} = -29.2$$

Hence, option E is correct.

**3.**  $? = 326 \times 14 - 12 \times 88 + (49)^2$

$$= 4564 - 1056 + 2401 = 5909$$

Hence, option B is correct.

**4.** 46% of 1250 + ?% of 4680 = 1183.4

$$\frac{46}{100} \times 1250 + \frac{?}{100} \times 4680 = 1183.4$$

$$575 + \frac{?}{5} \times 234 = 1183.4$$

$$\frac{?}{5} \times 234 = 1183.4 - 575 = 608.4$$

$$? = \frac{608.4 \times 5}{234} = \frac{3042}{234} = 13$$

Hence, option E is correct.

**5.**

$$8\frac{1}{2} + 4\frac{2}{7} = 5\frac{1}{2} + ?$$

$$? = 8\frac{1}{2} + 4\frac{2}{7} - 5\frac{1}{2}$$

$$= (8 + 4 - 5) + \left(\frac{1}{2} + \frac{2}{7} - \frac{1}{2}\right)$$

$$= 7 + \frac{2}{7} = 7\frac{2}{7}$$

Hence, option C is correct.

**6.** ? = 6561 ÷ 9 ÷ 81

$$= 6561 \times \frac{1}{9} \times \frac{1}{81} = 9$$

Hence, option E is correct.

**7.** ? =  $\sqrt{1827 \div 29 \div 7 + 567 \div 21} = ?$

$$= \sqrt{1827 \times \frac{1}{29} \times \frac{1}{7} + 27}$$

$$= \sqrt{9 + 27} = \sqrt{36} = 6$$

Hence, option C is correct.

**8.**

$$? = \frac{21}{25} \div \frac{9}{20} \times \frac{5}{12} \div \frac{10}{17}$$

$$= \frac{21}{25} \times \frac{20}{9} \times \frac{5}{12} \times \frac{17}{10}$$

$$= \frac{119}{90} = 1.32$$

Hence, option D is correct.

**9.**

$$? = 9.6 \times 3.6 + 7.2 + 10.8 \text{ of } \frac{1}{18} - \frac{1}{10}$$

$$= 34.56 + 7.2 + 0.6 - 0.1 = 42.26$$

Hence, option A is correct..

**10.**  $(?)^2 = \sqrt{13^2 + 168 \div 24 - 3^3 + 107}$

$$(?)^2 = \sqrt{169 + 7 - 27 + 107}$$

$$(?)^2 = \sqrt{256} = 16 = (4)^2$$

$$\therefore ? = 4$$

Hence, option D is correct.



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