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## Simplification Questions for Bank PO Pre Exams.

### Simplification Quiz 11

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

1.  $\sqrt{301 - \sqrt{168 - \sqrt{544 + \sqrt{1042 - \sqrt{324}}}}} = ? \div 3$

- A. 25                      B. 21                      C. 39                      D. 34                      E. 65

2.  $1089 \div \sqrt[3]{1728} \div 11 + \sqrt{225} = ?^2 - 652.75$

- A. 35                      B. 26                      C. 48                      D. 52                      E. 24

3.  $72.9 \div 81 \times \sqrt{100} = ?1/2 \div \sqrt{324} + \sqrt[3]{64}$

- A. 8100                      B. 4900                      C. 2500                      D. 3600                      E. 6400

4.  $48.3 \times 289 \div 3.4 \div 23 \div 68 \times 21 = ?^3 + 28.125$

- A. 5                      B. 3                      C. 8                      D. 11                      E. None of these

5.  $4\frac{1}{3} + 2\frac{7}{4} - 5\frac{11}{3} = ? + 2\frac{4}{3}$

- A.  $-5\frac{12}{19}$                       B.  $6\frac{31}{60}$                       C.  $\frac{51}{60}$                       D.  $-1\frac{12}{19}$                       E. None of these

6.  $(16.67\% \text{ of } 4446 \times 1292) \div (37.5\% \text{ of } 2584) = ?^3 - 343$

- A. 15                      B. 11                      C. 21                      D. 14                      E. None of these

7.  $17.5\% \text{ of } 754 = ?^{1/2} + 51.31 + 51.64$

- A. 841                      B. 324                      C. 625                      D. 900                      E. 1225

8.  $? \div \sqrt{4225} = 351 \times 216 \div ?^2 \div 169 \div 36$

- A.  $2\sqrt[3]{35}$                       B. 27                      C.  $3\sqrt[3]{30}$                       D. 15                      E. None of these

9.  $6\frac{7}{8} - 5\frac{4}{3} + 2\frac{11}{5} = ? + 6\frac{11}{7} - 5\frac{2}{7}$

A.  $6\frac{383}{840}$

B.  $2\frac{383}{840}$

C.  $11\frac{383}{840}$

D.  $4\frac{383}{840}$

E.  $5\frac{383}{840}$

10.  $? \div 1156 = 6859 \times .64 \div ? \div 19$

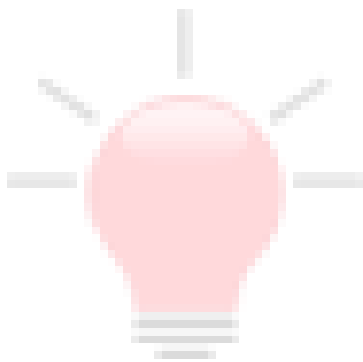
A. 239.50

B. 321

C. 432.60

D. 516.8

E. 506



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

**Explanations:**

1.  $\sqrt{301 - \sqrt{168 - \sqrt{544 + \sqrt{1042 - \sqrt{324}}}}} = ? \div 3$

$$\sqrt{301 - \sqrt{168 - \sqrt{544 + \sqrt{1042 - 18}}} = ? \div 3$$

$$\sqrt{301 - \sqrt{168 - \sqrt{544 + \sqrt{1024}}} = ? \div 3$$

$$\sqrt{301 - \sqrt{168 - \sqrt{544 + 32}}} = ? \div 3$$

$$\sqrt{301 - \sqrt{168 - \sqrt{576}}} = ? \div 3$$

$$\sqrt{301 - \sqrt{168 - 24}} = ? \div 3$$

$$\sqrt{301 - 12} = ? \div 3$$

$$\sqrt{289} = ? \div 3$$

or,  $17 = ? \div 3$  or,  $? = 51$

Hence, option B is correct.

2.  $1089 \div \sqrt[3]{1728} \div 11 + \sqrt{225} = ?^2 - 652.75$

$$1089 \div 12 \div 11 + 15 = ?^2 - 652.75$$

$$8.25 + 652.75 + 15 = ?^2$$

$$661 + 15 = ?^2$$

$$?^2 = 676$$

$$? = 26$$

Hence, option B is correct.

$$3. 72.9 \div 81 \times \sqrt{100} = ?^{1/2} \div \sqrt{324} + \sqrt[3]{64}$$

$$72.9 \div 81 \times 10 = ?^{1/2} \div 18 + 4$$

$$729 \div 81 = ?^{1/2} \div 18 + 4$$

$$9 - 4 = ?^{1/2} \div 18$$

$$5 \times 18 = ?^{1/2}$$

$$?^{1/2} = 90$$

$$? = 8100$$

Hence, option A is correct.

$$4. 48.3 \times 289 \div 3.4 \div 23 \div 68 \times 21 = ?^3 + 28.125$$

$$483 \times 289 \div 34 \div 23 \div 68 \times 21 = ?^3 + 28.125$$

$$\frac{441}{8} = ?^3 + 28.125$$

$$55.125 - 28.125 = ?^3$$

$$?^3 = 27$$

$$? = 3$$

Hence, option B is correct.

5.

$$4\frac{1}{3} + 2\frac{7}{4} - 5\frac{11}{3} = ? + 2\frac{4}{3}$$

$$4\frac{1}{3} + 2\frac{7}{4} - 5\frac{11}{3} - 2\frac{4}{3} = ?$$

$$? = (4 + 2 - 5 - 2) + \frac{1}{3} + \frac{7}{4} - \frac{11}{3} - \frac{4}{3}$$

$$? = -1 + \frac{4 + 21 - 44 - 16}{12}$$

$$? = -1 + \left(-\frac{35}{12}\right)$$

$$? = -1 - \frac{35}{12}$$

$$? = -\frac{47}{12} = -3\frac{11}{12}$$

Hence, option E is correct.

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6.  $(16.67\% \text{ of } 4446 \times 1292) \div (37.5\% \text{ of } 2584) = ?^3 - 343$

$$(4446 \times \frac{1}{6} \times 1292) \div (2584 \times \frac{3}{8}) = ?^3 - 343$$

$$741 \times 1292 \div (323 \times 3) = ?^3 - 343$$

$$247 \times 4 + 343 = ?^3$$

$$988 + 343 = ?^3$$

$$?^3 = 1331$$

$$? = 11$$

Hence, option B is correct.

7.  $17.5\% \text{ of } 754 = ?^{1/2} + 51.31 + 51.64$

$$35\% \text{ of } 377 = ?^{1/2} + 102.95$$

$$131.95 - 102.95 = ?^{1/2}$$

$$?^{1/2} = 29$$

$$? = 841$$

Hence, option A is correct.

8.  $? \div \sqrt{4225} = 351 \times 216 \div ?^2 \div 169 \div 36$

$$? \div 65 = 351 \times 6 \div ?^2 \div 169$$

$$? \times ?^2 = 27 \times 65 \times 6 \div 13$$

$$?^3 = 27 \times 6 \times 5$$

$$? = 3\sqrt[3]{30}$$

Hence, option C is correct.

9.

$$6\frac{7}{8} - 5\frac{4}{3} + 2\frac{11}{5} = ? + 6\frac{11}{7} - 5\frac{2}{7}$$

$$6\frac{7}{8} - 5\frac{4}{3} + 2\frac{11}{5} - 6\frac{11}{7} + 5\frac{2}{7} = ?$$

$$? = (6 - 5 + 2 - 6 + 5) + \left(\frac{7}{8} - \frac{4}{3} + \frac{11}{5} - \frac{11}{7} + \frac{2}{7}\right)$$

$$? = (13 - 11) + \left(\frac{735 - 1120 + 1848 - 1320 + 240}{840}\right)$$

$$? = 2 + \frac{383}{840}$$

$$? = 2\frac{383}{840}$$

Hence, option B is correct.

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**10.**  $? \div 1156 = 6859 \times .64 \div ? \div 19$

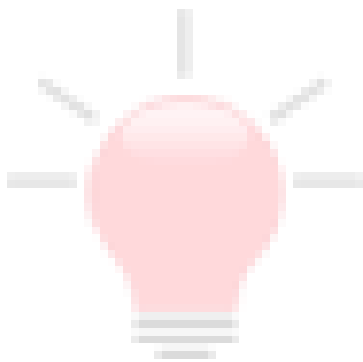
$$? \times ? = 6859 \times .64 \div 19 \times 1156$$

$$?^2 = 361 \times .64 \times 1156$$

$$? = 19 \times .8 \times 34$$

$$? = 516.8$$

Hence, option D is correct.



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