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Simplification Questions for RBI Assistant Exam.

RBI Assistant Quiz 2

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

1. $[(4)^3 \times (5)^4] \div (4)^5 = ?$

- A. 30.0925 B. 39.0625 C. 35.6015 D. 29.0825 E. None of these

2. $\frac{2}{5}$ of 117 - $\frac{3}{5}$ of 65 = ?

- A. 40 B. 58 C. 52 D. 39 E. None of these

3. $?^2 + 200 \div \sqrt{64} - 6^2 \times 7 = 18 + \sqrt{121}$

- A. 12 B. 25 C. 18 D. 16 E. None of these

4. $17.5\% \text{ of } 754 = ?^{1/2} + 51.31 + 51.64$

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

5. $(569.72 + 113.68 - 183.4) \times \sqrt[3]{8} = ?^2 - 24$

- A. 32 B. 35 C. 36 D. 40 E. None of these

6. $8765 - 3246 + 6783 = 4516 + ?$

- A. 6786 B. 7786 C. 7876 D. 8776 E. None of these

7. $70\% \text{ of } 1680 + ?\% \text{ of } 1750 = 55\% \text{ of } 2820 - 886$

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

8. $(? \times 21\% \text{ of } 210) \div (17\% \text{ of } 170) = 3087 \div ?$

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

9. $\frac{185}{37} \times \frac{96}{4} + \frac{1005}{15} - \frac{7}{5} = ?$

- A. 145.6 B. 248.8 C. 210.5 D. 185.6 E. None of these

10. $\frac{1}{5} \times \frac{1}{4} \times 2000 = ? + 20$

- A. 80 B. 100 C. 120 D. 50 E. 70

Correct Answers:

1	2	3	4	5	6	7	8	9	10
B	D	D	A	A	B	E	D	D	A



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Explanations:

1. $[(4)^3 \times (5)^4] \div (4)^5 = ?$

$$? = \frac{4^3 \times 5^4}{4^5} = \frac{5^4}{4^2} = \frac{625}{16} = 39.0625$$

Hence, option B is correct.

2.

$$? = \frac{2}{3} \text{ of } 117 - \frac{3}{5} \text{ of } 65$$

$$= 2 \times 39 - 3 \times 13$$

$$= 78 - 39 = 39$$

Hence, option D is correct.

3. $?^2 + 200 \div \sqrt{64} - 6^2 \times 7 = 18 + \sqrt{121}$

$$?^2 + 200 \div 8 - 36 \times 7 = 18 + 11$$

$$?^2 + 25 - 252 = 29$$

$$?^2 = 29 - 25 + 252$$

$$?^2 = 4 + 252$$

$$?^2 = 256$$

$$? = 16$$

Hence, option D is correct.



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4. $17.5\% \text{ of } 754 = ?^{1/2} + 51.31 + 51.64$

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

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

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

$$? = 841$$

Hence, option A is correct.

5. $(569.72 + 113.68 - 183.4) \times \sqrt[3]{8} = ?^2 - 24$

$$(683.4 - 183.4) \times 2 = ?^2 - 24$$

$$500 \times 2 + 24 = ?^2$$

$$?^2 = 1000 + 24$$

$$?^2 = 1024$$

$$? = 32$$

Hence, option A is correct.

6. $8765 - 3246 + 6783 = 4516 + ?$

$$? = 8765 - 3246 + 6783 - 4516$$

$$? = 7786$$

Hence, option B is correct.



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7. $70\% \text{ of } 1680 + ?\% \text{ of } 1750 = 55\% \text{ of } 2820 - 886$

or, $70\% \text{ of } 1680 + \frac{?}{100} \text{ of } 1750 = 55\% \text{ of } 2820 - 886$

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

or, $1176 + 17.5 \times ? = 1551 - 886$

or, $17.5 \times ? = 1551 - 886 - 1176$

$\therefore ? = \frac{-511}{17.5} = -29.2$

Hence, option E is correct.

8. $(? \times 21\% \text{ of } 210) \div (17\% \text{ of } 170) = 3087 \div ?$

$(? \times 441 \div 289) = 3087 \div ?$

$?^2 = 3087 \times 289 \div 441$

$?^2 = 289 \times 7$

$? = 17\sqrt{7}$

Hence, option D is correct.

9.

$\frac{185}{37} \times \frac{96}{4} + \frac{1005}{15} - \frac{7}{5} = ?$

$\Rightarrow 5 \times 24 + 67 - 1.4 = ?$

$\Rightarrow 120 + 67 - 1.4 = ?$

$\Rightarrow 185.6 = ?$

Hence, option D is correct.

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10.

$$\frac{1}{5} \times \frac{1}{4} \times 2000 = ? + 20$$

$$\Rightarrow 100 - 20 = ?$$

$$\Rightarrow 80 = ?$$

Hence, option A is correct.



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