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Approximation Questions for IBPS Clerk Pre, SBI Clerk Pre and RRB Asst. Pre Exams.

Approximation Quiz 29

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

1. 4.64% of $(456.32 + 589.754 + 1209.99) = ?$

- A. 135 B. 128 C. 98 D. 102 E. 113

2. $9889.675 \times 45.56 - 34.6789 \times 112.99 = ? + 5999.3$

- A. 445445 B. 674654 C. 786454 D. 554545 E. 844352

3. 34.88% of $699.987 - 75.034\%$ of $447.99 + 876.11 = ?$

- A. 723 B. 644 C. 982 D. 785 E. 234

4. $\sqrt{1296.011} \times \sqrt{9603.99} + \sqrt{3844.123} \times 4.999 = ?$

- A. 4245 B. 5776 C. 3838 D. 2986 E. 1889

5. $65.789 - 4998.99 \times 5.0012 + 9898.1154 - 56.898 = ?$

- A. - 12304 B. - 13024 C. - 15091 D. - 14201 E. - 11011

6. $\frac{\sqrt{4488.9 \times 2916.03}}{8.9 \times 2} + \sqrt{42\% \text{ of } 1049.98} = 6\% \text{ of } ?$

- A. 4500 B. 2900 C. 3700 D. 3400 E. 2800

7. $\frac{767 \times 15.09}{13.02} - 239.09 - ? = (12 + 14.009)\% \text{ of } 649.93$

- A. 477 B. 399 C. 522 D. 299 E. 388

8. $(20.09\% \text{ of } 1081) + (? \% \text{ of } 719) = ? + 401.97$

- A. 25 B. 30 C. 20 D. 24 E. 32

9. $\frac{(17.98^2 - 35.95 + ?)}{\sqrt{2115.9}} = (13.09)^2 - \sqrt{440}$

- A. 7830 B. 4959 C. 6520 D. 7840 E. 4508

10. $183.90 \div 46.06 \div (10^{-3} \times 7.9) \div \sqrt{156.35} = ?$

- A. 30 B. 40 C. 20 D. 80 E. 45

Correct Answers:

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

Explanations:

1. 4.64% of $(456.32 + 589.754 + 1209.99) = ?$

$$\approx \frac{5}{100} \times (456 + 590 + 1210) = ?$$

$$\Rightarrow \frac{5}{100} \times 2256 = ?$$

$$\Rightarrow 112.8 = ?$$

$$\approx 113 = ?$$

Hence, option E is correct.

2. $9889.675 \times 45.56 - 34.6789 \times 112.99 = ? + 5999.3$

$$\approx 9900 \times 46 - 35 \times 113 - 6000 = ?$$

$$\Rightarrow 455400 - 3955 - 6000 = ?$$

$$\Rightarrow 445445$$

Hence, option A is correct.

3. 34.88% of $699.987 - 75.034\%$ of $447.99 + 876.11 = ?$

$$\approx 35\% \text{ of } 700 - 75\% \text{ of } 448 + 876 = ?$$

$$\Rightarrow \frac{35}{100} \times 700 - \frac{75}{100} \times 448 + 876 = ?$$

$$\Rightarrow 245 - 336 + 876 = ?$$

$$\Rightarrow 785 = ?$$

Hence, option D is correct.

4. $\sqrt{(1296.011)} \times \sqrt{(9603.99)} + \sqrt{(3844.123)} \times 4.999 = ?$

$$\approx \sqrt{(1296)} \times \sqrt{(9604)} + \sqrt{(3844)} \times 5 = ?$$

$$\Rightarrow 36 \times 98 + 62 \times 5 = ?$$

$$\Rightarrow 3528 + 310 = ?$$

$$\Rightarrow 3838 = ?$$

Hence, option C is correct.

5. $65.789 - 4998.99 \times 5.0012 + 9898.1154 - 56.898 = ?$
 $\approx 66 - 5000 \times 5 + 9900 - 57 = ?$
 $\Rightarrow 66 - 25000 + 9900 - 57 = ?$
 $\Rightarrow -15091 = ?$
Hence, option C is correct.

6. $\Rightarrow \frac{\sqrt{4488.9 \times 2916.03}}{8.9 \times 2} + \sqrt{42\% \text{ of } 1049.98} = 6\% \text{ of } ?$
 $\Rightarrow \frac{\sqrt{4489 \times 2916}}{9 \times 2} + \sqrt{42\% \text{ of } 1050} \approx 6\% \text{ of } ?$
 $\Rightarrow \frac{67 \times 54}{18} + \sqrt{441} \approx 6\% \text{ of } ?$
 $\Rightarrow 201 + 21 = 6\% \text{ of } ?$
 $\Rightarrow \frac{x \times 6}{100} = 222$
 $\Rightarrow x = \frac{22200}{6}$
 $\Rightarrow x = 3700$
Hence, option C is correct.

7. $\Rightarrow \frac{767 \times 15.09}{13.02} - 239.09 - ? = (12 + 14.009)\% \text{ of } 649.93$
 $\Rightarrow \frac{767 \times 15}{13} - 239 - ? \approx 650 \times \frac{26}{100}$
 $\Rightarrow 885 - 239 - ? = 169$
 $\Rightarrow x = 477$
Hence, option A is correct.

8. $\Rightarrow (20.09\% \text{ of } 1081) + (?\% \text{ of } 719) = ? + 401.97$
 $\Rightarrow (20\% \text{ of } 1080) + (?\% \text{ of } 720) \approx ? + 402$
 $\Rightarrow (?\% \text{ of } 720) - ? \approx 402 - 216 = 186$
 $\Rightarrow (72? - 10?) \approx 186 \times 10$
 $\Rightarrow 62? \approx 1860$
 $\Rightarrow ? = 30$
Hence, option B is correct.

9.

$$\frac{(17.98^2 - 35.95 + ?)}{\sqrt{2115.9}} = (13.09)^2 - \sqrt{440}$$

$$\Rightarrow \frac{18^2 - 36 + ?}{\sqrt{2116}} = 13^2 - \sqrt{441}$$

$$\Rightarrow \frac{288 + ?}{46} = 169 - 21$$

$$\Rightarrow 288 + ? = 7774 - 966$$

$$\Rightarrow ? = 6520$$

Hence, option C is correct.

10. $\Rightarrow 183.90 \div 46.06 \div (10^{-3} \times 7.9) \div \sqrt{(156.35)} = ?$

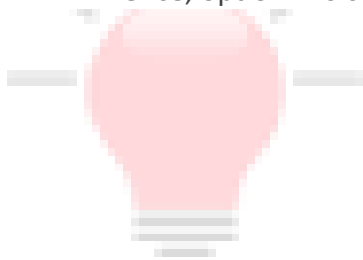
$$\Rightarrow 184 \div 46 \div (10^{-3} \times 8) \div \sqrt{(156.25)} = ?$$

$$\Rightarrow ? = 4 \div (0.008) \div (12.5)$$

$$\Rightarrow ? = 500 \div 12.5$$

$$\Rightarrow ? = 40$$

Hence, option B is correct.



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