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

Approximation Quiz 25

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

1. $56.99 \times 56.02 + 789.998 - 54.9 + 123.33 = ?$

A. 4560 B. 4650 C. 4050 D. 4540 E. 5040

2. 35.85% of 569.9 + 35.9% of 450.2 = ?

A. 357 B. 367 C. 377 D. 380 E. 355

3. $\sqrt{783.99} \times \sqrt{169.123} + 49.9\%$ of $300 = ? \times 9.8$

A. 49 B. 51 C. 58 D. 55 E. 60

4. $(7.03)^2 + (9.03)^2 - 9.88\%$ of $554.99 = ? - 125.01$

A. 190 B. 182 C. 175 D. 200 E. 225

5. $(\sqrt{1224.889} \times 16.23) \div 4.99 \times 4 = ?$

A. 504 B. 410 C. 450 D. 362 E. 350

6. 59.98% of 499.9898 + 69.99% of 456.78 = ?

A. 420 B. 620 C. 559 D. 450 E. 640

7. $2345.6789 - 567.112 + 899.998 + 456.123 = ?$

A. 6135 B. 5136 C. 3135 D. 3153 E. None of these

8. $\sqrt{4901} \times 678.123 + 45.98\%$ of $\sqrt{4225.111} = ?$

A. 44684 B. 46468 C. 47490 D. 48489 E. 57540

9. $46.76 \times ? - 456.034 \times 6 = -599.98$

A. 45 B. 50 C. 55 D. 40 E. 35

10. $998.988 \times \sqrt{8280.99} + 4532.889 \times 6.11 = ?$

A. 171807 B. 118107 C. 117018 D. 181078 E. None of these

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Correct Answers:

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

Explanations:

1. $56.99 \times 56.02 + 789.998 - 54.9 + 123.33$

$? \approx 57 \times 56 + 790 - 55 + 123$

$? \approx 3192 + 790 - 55 + 123$

$? \approx 4105 - 55$

$? \approx 4050$

Hence, option (C) is correct.

2. 35.85% of 569.9 + 35.9% of 450.2

$\approx 36\% \times 570 + 36\% \times 450$

$? \approx \frac{36}{100} \times 570 + \frac{36}{100} \times 450$

$? \approx 205.2 + 162$

$? \approx 367.2$

$? \approx 367$

Hence, option (B) is correct.

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3. $\sqrt{783.99} \times \sqrt{169.123}$ + 49.9% of 300 = ? × 9.8

$\Rightarrow \sqrt{784} \times \sqrt{169} + \frac{50}{100} \times 300 \approx ? \times 10$

$\Rightarrow 28 \times 13 + 150 \approx ? \times 10$

$\Rightarrow ? \approx \frac{514}{10} = 51.4$

$\Rightarrow ? \approx 51$

Hence, option (B) is correct.

4. $(7.03)^2 + (9.03)^2 - 9.88\%$ of $554.99 = ? - 125.01$

$\Rightarrow 49 + 81 - \frac{10}{100} \times 555 + 125 \approx ?$

$\Rightarrow ? \approx 130 - 55.5 + 125 = 199.5$

$\therefore ? \approx 200$

Hence, option (D) is correct.

5. $(\sqrt{1224.889} \times 16.23) \div 4.99 \times 4$
$? \approx (\sqrt{1225} \times 16) \div 5 \times 4$

$? \approx \frac{35 \times 16}{5} \times 4$

$? \approx 112 \times 4 = 448$
$\therefore ? \approx 450$

Hence, option (C) is correct.

6. 59.98% of 499.9898 + 69.99% of 456.78 = ?

$? \approx \frac{60}{100} \times 500 + \frac{70}{100} \times 457$

$? = 300 + 319.9$

$? = 619.9$

$? \approx 620$

Hence, option (B) is correct.

7. $? = 2345.6789 - 567.112 + 899.998 + 456.123$

$? \approx 2346 - 567 + 900 + 456$

$? \approx 3135$

Hence, option (C) is correct.

8. $? = \sqrt{4901} \times 678.123 + 45.98\ \%\ \text{of}\ \sqrt{4225.111}$

$? \approx \sqrt{4900} \times 678 + \frac{46}{100} \times 65$

$? = 70 \times 678 + 29.9$

$? \approx 47460 + 30$

$? \approx 47490$

Hence, option (C) is correct.

9. $46.76 \times ? - 456.034 \times 6 = -599.98$

$\Rightarrow 47 \times ? - 456 \times 6 \approx -600$

$\Rightarrow 47 \times ? = -600 + 2736$

$\Rightarrow ? = \frac{2136}{47}$

$\Rightarrow ? = 45.44$

$\Rightarrow ? \approx 45$

Hence, option (A) is correct.

10. $? = 998.988 \times \sqrt{8280.99} + 4532.889 \times 6.11$

$? \approx 999 \times 91 + 4533 \times 6$

$? = 90909 + 27198$

$? = 118107$

Hence, option (B) is correct.

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