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

Approximation Quiz 26

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

1. $\dfrac{255.98}{5.9} \times \dfrac{729.032}{8.98} \times \dfrac{415}{4.99} = ? \times 10$

A. 28909   B. 38515   C. 19879   D. 32198   E. 24832

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2. **225.07 ÷ 24.897 × 325.598 + 98.99 = ?**

A. 6231   B. 4512   C. 3033   D. 2431   E. 3844

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3. **26.12% of 989.889 + 34.99% of 674.945 = ? − 678.23**

A. 1826   B. 1171   C. 1628   D. 1341   E. 1467

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4. **3456.9890 + 549.021 − 724.879 + 592.917 = ?**

A. 3590   B. 1934   C. 4532   D. 3874   E. None of these

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5. **√675.99 × √1764.021 + √783.78 = ? × 5**

A. 432   B. 242   C. 224   D. 342   E. None of these

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6. **324.125 − 56.999 × 9.99 + 68.12 × 12 = ?**

A. 187   B. 570   C. 570   D. 390   E. 640

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7. **√575.99 × √784.111 + √1224.976 × 14.99 = ?**

A. 1197   B. 1467   C. 1876   D. 1786   E. 1523

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8. $\dfrac{4.99}{24.78} \times 999.99 + \dfrac{1}{5} \times 444.999 + 654.989 = ?$

A. 778   B. 944   C. 565   D. 846   E. 865

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9. **34.67% of 289.998 + 32.023% of 345.111 = ?**

A. 443   B. 450   C. 505   D. 212   E. 346

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10. **34.987 − 754.23567 + 998.899 + 32.765 = ? − 59.99**

A. 728   B. 628   C. 373   D. 527   E. 824

Correct Answers:

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

Explanations:

1.

$$\frac{255.98}{5.9} \times \frac{729.032}{8.98} \times \frac{415}{4.99} = ? \times 10$$

$$\Rightarrow \frac{256}{6} \times \frac{729}{9} \times \frac{415}{5} \approx ? \times 10$$

$$\Rightarrow 42.667 \times 81 \times 83 \approx ? \times 10$$

$$\Rightarrow \frac{43 \times 81 \times 83}{10} \approx ?$$

$$\Rightarrow \frac{289089}{10} \approx ?$$

$$\Rightarrow 28908.9 \approx ?$$

$$\therefore ? \approx 28909$$

Hence, option (A) is correct.

2.   225.07 ÷ 24.897 × 325.598 + 98.99 = ?

⇒ ? ≈ 225 ÷ 25 × 326 + 99

⇒ ? ≈ 9 × 326 + 99
⇒ ? ≈ 2934 + 99

∴   ? ≈ 3033

Hence, option (C) is correct.

3.   26.12% of 989.889 + 34.99% of 674.945 = ? − 678.23

$$\Rightarrow \frac{26}{100} \times 990 + \frac{35}{100} \times 675 + 678 \approx ?$$

⇒ 257.4 + 236.25 + 678 ≈ ?
⇒ 257 + 236 + 678 ≈ ?
∴ ? ≈ 1171
Hence, option (B) is correct.

4.   3456.9890 + 549.021 − 724.879 + 592.917 = ?

⇒ 3457 + 549 − 725 + 593 ≈ ?

∴ ? ≈ 3874

Hence, option (D) is correct.

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5. $\sqrt{675.99} \times \sqrt{1764.021} + \sqrt{783.78} = ? \times 5$
⇒ $\sqrt{676} \times \sqrt{1764} + \sqrt{784} \approx ? \times 5$
⇒ 26 × 42 + 28 ≈ ? × 5
⇒ 1092 + 28 ≈ ? × 5
⇒ ? ≈ $\dfrac{1120}{5}$

∴ ? ≈ 224
Hence, option (C) is correct.

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6.   324.125 − 56.999 × 9.99 + 68.12 × 12 = ?

⇒ 324 − 57 × 10 + 68 × 12 ≈ ?

⇒ 324 − 570 + 816 = ?

∴ 570 = ?

Hence, option (B) is correct.

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7.   √575.99 × √784.111 + √1224.976 × 14.99 = ?

⇒ √576 × √784 + √1225 × 15 ≈ ?

⇒ 24 × 28 + 35 × 15 = ?

⇒ 672 + 525 = ?

∴ ? = 1197

Hence, option (A) is correct.

8.

$$\frac{4.98}{24.78} \times 999.99 + \frac{1}{5} \times 444.999 + 654.989 = ?$$

$$\Rightarrow \frac{5}{25} \times 1000 + \frac{1}{5} \times 445 + 655 \approx ?$$

$$\Rightarrow 200 + 89 + 655 = ?$$

$$\therefore ? = 944$$

Hence, option (B) is correct.

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9. $46.76 \times ? - 456.034 \times 6 = -599.98$
$\Rightarrow 47 \times ? - 456 \times 6 \approx -600$
$\Rightarrow 47 \times ? = -600 + 2736$
$\Rightarrow ? = \dfrac{2136}{47}$
$\Rightarrow ? = 45.44$
$\Rightarrow ? \approx 45$

Hence, option (A) is correct.

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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.