Approximation Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

Approximation Quiz 37

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

1. $\sqrt{8837} \times 20 \times 4.25 + \sqrt{5040} \times 10 \times 8.75 - \sqrt{4489} \times 5 \times 1.25 = ?$

A. 13575   B. 17255   C. 22485   D. 21850   E. 3785

2. $0.003 \times 0.9 \times 0.005 \times 0.2 + 0.008 \times 0.5 + 25.85 - 23.05 = ?$

A. 17   B. 11   C. 3   D. 5   E. None of these

3. $(2356.237 \times 4.9) - 1357.895 + 1124.237 - 425.231 + (35 \times 1.23) = ?$

A. 19052   B. 12952   C. 11156   D. 8992   E. 13852

4. $470.005 \times 99.92 + 337.89 + 472.05 - 137.88 \times 0.98 = ?$

A. 58447   B. 47672   C. 68947   D. 40132   E. 35000

5. $2222.1 \times 11 + 3333.1 \times 11.01 + 4444 \times 11 + 5555 \times 11 - 6666.1 \times 11 = ?$

A. 10864   B. 86884   C. 97768   D. 77768   E. 88768

6. $?\% \text{ of } (5284.89 \div 7.08) = 986.01 - 533.06$

A. 42   B. 39   C. 74   D. 65   E. 60

7. $(1041.84 + ?) \div 3.02 = 1816.25 \div 4.01$

A. 442   B. 337   C. 385   D. 268   E. 320

8. $69.3\% \text{ of } 445.12 \div 14.06 = 623.08 \div ?$

A. 28   B. 19   C. 21   D. 33   E. 37

9. $?^2 + 114.09 - 24.06 \times 5.14 = 163.19$

A. 7   B. 13   C. 11   D. 15   E. 19

10. $768.16 \div 11.87 \times \sqrt{257} - 58.05 = ?$

A. 1033   B. 1175   C. 966   D. 880   E. 975

Correct Answers:

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

Explanations:

1. $\sqrt{8837} \times 20 \times 4.25 + \sqrt{5040} \times 10 \times 8.75 - \sqrt{4489} \times 5 \times 1.25 = ?$

$? \approx \sqrt{8836} \times 20 \times 4 + \sqrt{5041} \times 10 \times 9 - \sqrt{4489} \times 5 \times 1$

$= 94 \times 80 + 71 \times 90 - 67 \times 5$

$= 7520 + 6390 - 335$

$= 13575$

Hence, option A is correct.

2. $0.003 \times 0.9 \times 0.005 \times 0.2 + 0.008 \times 0.5 + 25.85 - 23.05 = ?$

$? = 0.0027 \times 0.0001 + 0.0004 + 25.85 - 23.05$

$= 0.0000027 + 0.004 + 2.8$

$= 2.8040027 \approx 3$

Hence, option C is correct.

3. $(2356.237 \times 4.9) - 1357.895 + 1124.237 - 425.231 + (35 \times 1.23) = ?$

$? = (2356 \times 5) - 1358 + 1124 - 425 + (35 \times 1)$

$? = 11780 - 1358 + 1124 - 425 + 35$

$? = 11780 - 624 = 11156$

Hence, option C is correct.

4. $470.005 \times 99.92 + 337.89 + 472.05 - 137.88 \times 0.98 = ?$

$? \approx 470 \times 100 + 338 + 472 - 138 \times 1$

$? \approx 47000 + 810 - 138$

$? \approx 47672$

Hence, option B is correct.

5. 2222.1 × 11 + 3333.1 × 11.01 + 4444 × 11 + 5555 × 11 − 6666.1 × 11 = ?

? ≈ 2222 × 11 + 3333 × 11 + 4444 × 11 + 5555 × 11 − 6666 × 11

= 11[2222 + 3333 + 4444 + 5555 − 6666]

= 11[2222 + 3333 + 4444 + 5555 − 6666]

= 11 × 8888 = 97768

Hence, option C is correct.

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6. ?% of (5284.89 ÷ 7.08) = 986.01 − 533.06

≈ ?% of (5285 ÷ 7) = 986 - 533

⇒ ? × (755) = 453 × 100

⇒ ? = $\dfrac{453 \times 100}{755}$ = 60

Hence, option E is correct.

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7. (1041.84 + ?) ÷ 3.02 = 1816.25 ÷ 4.01

≈ (1042 + ?) ÷ 3 = 1816 ÷ 4

= (1042 + ?) = 454 × 3

= ? = 1362 − 1042 = 320

Hence option E is correct.

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8. 69.3% of 445.12 ÷ 14.06 = 623.08 ÷ ?

≈ 69% of 445 ÷ 14 = 623 ÷ ?

= $\dfrac{69 \times 445}{100 \times 14} = \dfrac{623}{?}$

? = $\dfrac{623 \times 100 \times 14}{69 \times 445}$ = 28.40 ≈ 28

Hence, option A is correct.

9. $?^2 + 114.09 - 24.06 \times 5.14 = 163.19$

$\approx ?^2 + 114 - 24 \times 5 = 163$

$\approx ?^2 - 120 = 163 - 114$

$\approx ?^2 = 49 + 120$

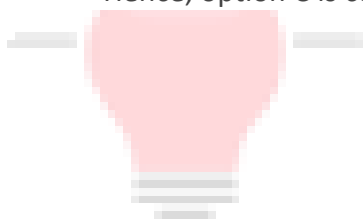$\approx ?^2 = 169 = 13$

Hence, option B is correct.

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10. $768.16 \div 11.87 \times \sqrt{257} - 58.05 = ?$

$? \approx 768 \div 12 \times \sqrt{256} - 58$

$? \approx 64 \times 16 - 58$

$? \approx 1024 - 58 = 966$

Hence, option C is correct.