Approximation Questions for IBPS PO Pre, SBI PO Pre, SBI Clerk Mains, IBPS Clerk Mains, IBPS SO Pre and RRB Scale I Pre Exams.

Approximation Quiz 21

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

1. $(\frac{7}{8}$ of 5432.33$) - 5 + (\frac{9}{10}$ of 6929.92$) - 5 = ?$

A. 10980   B. 11876   C. 10996   D. 10866   E. 13698

2. $\frac{1014.03}{12.989} - 8.99 \times 6.89 = ? - \frac{503.98}{8.99} + 19.93$

A. 65   B. 59   C. 51   D. 73   E. 42

3. $\frac{?}{47.99} = \frac{344.003}{42.98} \times \frac{66.99}{1072.003}$

A. 36   B. 24   C. 18   D. 29   E. 32

4. $\frac{? + 12.01^3}{2.99} = \sqrt[3]{6860} \times \sqrt{1520}$

A. 480   B. 525   C. 625   D. 495   E. 654

5. $? = (1824.01 \div 18.89) \div [16.98 \div 25.03] \times (594.99 \div 23.99)$

A. 3500   B. 3000   C. 3900   D. 3800   E. 3600

6. 34.11% of $234.89 + 233.01 = \sqrt{840} + ?$

A. 351   B. 284   C. 224   D. 264   E. 298

7. $\sqrt[3]{5831.89} \times 30.9\%$ of $592.89 = ?$

A. 3080   B. 3685   C. 3348   D. 4444   E. 2940

8. 235.75% of $1250.4 + 742.31\%$ of $3560.20 = ?$

A. 22612   B. 21056   C. 23954   D. 24512   E. 29365

9. $4.48 + 231.02 - 34.51 + 35.99 \div 18.02 = ?$

A. 193   B. 213   C. 183   D. 203   E. 173

10. **49.98% of 300.09 + (?)^3 = 75.02% of 700 − 158.9**

A. 8   B. 7   C. 9   D. 5   E. 6

Correct Answers:

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

Explanations:

1.

$\left(\frac{7}{8}\text{of } 5432.33\right) - 5 + \left(\frac{9}{10}\text{of } 6929.92\right) - 5 = ?$

or $\frac{7 \times 5432}{8} - 5 + \frac{9 \times 6930}{10} - 5 = ?$

or 7 x 679 − 5 + 9 x 693 − 5 = ?

or 4753 + 6237 − 10 = ?

? = 4753 + 6227

? = 10980

Hence, option (A) is correct.

2.

$\frac{1014.03}{12.989} - 8.99 \times 6.89 = ? - \frac{503.98}{8.99} + 19.93$

$\approx \frac{1014}{13} - 9 \times 7 = ? - \frac{504}{9} + 20$

⇒ 78 − 63 = ? − 56 + 20

⇒ 15 = ? − 36

⇒ ? = 15 + 36 = 51

Hence, option C is correct.

3.   ? = 344.003 × 66.99 47.99 42.98 1072.003

$\approx \dfrac{?}{48} = \dfrac{344}{43} \times \dfrac{67}{1072}$

$\Rightarrow ? = 48\left[8 \times \dfrac{1}{16}\right]$

$\Rightarrow ? = 24$

Hence, option (B) is correct.

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4. $\dfrac{? + 12.01^3}{2.99} = \sqrt[3]{6860} \times \sqrt{1520}$

$\dfrac{? + 12^3}{2.99} = \sqrt[3]{6859} \times \sqrt{1521}$

$\Rightarrow ? + 12^3 = 3\,[19 \times 39]$

$\Rightarrow ? = 3 \times 741 - 1728$

$\Rightarrow ? = 2223 - 1728 = 495$

Hence, option (D) is correct.

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5.   ? = (1824.01 ÷ 18.89) ÷ [16.98 ÷ 25.03] × (594.99 ÷ 23.99)

$\Rightarrow ? \approx (1824 \div 19) \div [17 \div 25] \times (595 \div 24)$

$\Rightarrow ? = \dfrac{1824}{19} \div \left[\dfrac{17}{25}\right] \times \dfrac{595}{24}$

$\Rightarrow ? = \dfrac{1824}{19} \times \dfrac{25}{17} \times \dfrac{595}{24}$

$\Rightarrow ? = 96 \times 25 \times \dfrac{35}{24}$

$\Rightarrow ? = 4 \times 25 \times 35$

$\Rightarrow ? = 3500$

Hence, option (A) is correct.

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6.   34.11% of 234.89 + 233.01 = $\sqrt{840}$ + ?

$\approx$ 34% of 235 + 233 = $\sqrt{841}$ + ?

$\Rightarrow ? + 29 = 79.9 + 233$

$\Rightarrow ? = 283.9 \approx 284.$

Hence, option (B) is correct.

7. $\sqrt[3]{5831.89} \times 30.9\%$ of $592.89 = ?$

$\sqrt[3]{5832} \times 31\%$ of $592.89 \approx ?$

$\Rightarrow 18 \times \dfrac{31}{100} \times 593$

$\Rightarrow ? = 18 \times 31 \times 5.93$

$\Rightarrow ? \approx 558 \times 6 = 3348.$

Hence, option C is correct.

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8. 235.75% of $1250.4 + 742.31\%$ of $3560.20 = ?$

$\approx \dfrac{236}{100} \times 1250 + \dfrac{742}{100} \, 3560$

$= \dfrac{236 \times 1250}{100} + \dfrac{742 \times 3560}{100}$

$= 2950 + 26415 = 29365$

Hence, option E is correct.

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9. $4.48 + 231.02 - 34.51 + 35.99 \div 18.02 = ?$

$\Rightarrow 4.5 + 231 - 34.5 + 36 \div 18 = ?$

$\Rightarrow 235.5 - 34.5 + 2 = ?$

$\Rightarrow ? = 201 + 2$

$\Rightarrow ? = 203$

Hence, option D is correct.

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10. 49.98% of $300.09 + (?)^3 = 75.02\%$ of $700 - 158.9$

$\Rightarrow 50\%$ of $300 + (?)^3 = 75\%$ of $700 - 159$

$\Rightarrow 150 + (?)^3 = 525 - 159$

$\Rightarrow ?^3 = 366 - 150$

$\Rightarrow ?^3 = 216$

$\Rightarrow ? = 6$

Hence, option E is correct.