Approximation Questions for Bank Clerk Pre Exams.

Approximation Quiz 20

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

1. $(1611.23 + 2113.03 - 923.98) \div 3.98 \times 2 = ? + 99$

A. 1300 B. 1500 C. 1400 D. 1100 E. 1200

2. $\sqrt{1370} + \sqrt{1763.9} \times 3 \div 21 = ?^3 + 15$

A. 8 B. 10 C. 1 D. 3 E. 5

3. $(14.98)^2 + (12.01)^2 - (10.98)^2 = ? + 95 \div 5$

A. 200 B. 270 C. 230 D. 190 E. 300

4. $89.9\% \text{ of } 900 - ?^2 - 20\% \text{ of } 400.01 = 420 - 10.98$

A. 18 B. 25 C. 10 D. 30 E. 21

5. $(20.1 \times 17.97) \div (16 \times 14.98) + 16.09 + 2 \times 1.50 = ?$

A. 10 B. 15 C. 25 D. 30 E. 20

6. $(845\% \text{ of } 955) \times 5.96 = ?$

A. 46420 B. 44620 C. 48420 D. 52200 E. 54520

7. $(780.85 + 59.98) \div 29.02 = ?$

A. 29 B. 27 C. 19 D. 21 E. 11

8. $35\% \text{ of } ? \times \frac{3}{4} = 3984.75$

A. 12720 B. 18480 C. 15180 D. 17460 E. 13220

9. $8\frac{4}{5} \times 5\frac{7}{9} \times 9\frac{2}{3} = ?$

A. 490 B. 590 C. 540 D. 460 E. 520

10. $11.92^2 + 16.01^2 = ?^2 \times 3.85^2$

A. 15 B. 2 C. 4 D. 5 E. 12

Correct Answers:

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

Explanations:

1. $1611.23 + 2113.03 - 923.98) \div 3.98 \times 2 = ? + 99$

$\approx \frac{1611 + 2113 - 924}{4} \times 2 = ? + 99$

$\frac{3724 - 924}{2} = ? + 99$

$\frac{2800}{2} = ? + 99$

$? = 1400 - 99$

$? = 1301 \approx 1300$

Hence, option A is correct.

2. $\sqrt{1370} + \sqrt{1763.9} \times 3 \div 21 = ?^3 + 15$

$\approx \sqrt{1369} + \sqrt{1764} \times 3 \div 21 = ?^3 + 15$

$37 + 42 \div 7 = ?^3 + 15$

$37 + 6 - 15 = ?^3$

$?^3 = 28$

$? = 3.04 \approx 3$

Hence, option (D) is correct.

3. $(14.98)^2 + (12.01)^2 - (10.98)^2 = ? + 95 \div 5$

$\approx 15^2 + 12^2 - 11^2 = ? + 19$

$225 + 144 - 121 - 19 = ?$

$? = 369 - 140$

$? = 229 \approx 230$

Hence, option C is correct.

4. 89.9% of 900 $- ?^2 -$ 20% of 400.01 = 420 – 10.98

≈ 90% of 900 $- ?^2 -$ 20% of 400 = 420 – 11

$810 - ?^2 - 80 = 409$

$?^2 = 810 - 409 - 80$

$?^2 = 321$

$? = 17.91 \approx 18$

Hence, option A is correct.

5. $(20.1 \times 17.97) \div (16 \times 14.98) + 16.09 + 2 \times 1.50 = ?$

$? \approx (20 \times 18) \div (16 \times 15) + 16 + 2 \times 1.5$

$\frac{20 \times 18}{16 \times 15} + 16 + 3 = ?$

$\frac{360}{240} + 19 = ?$

$1.5 + 19 = ?$

$? = 20.5 \approx 20$

Hence, option E is correct.

6.

$? = \left(845 \times \frac{955}{100}\right) \times 6$

$= 8069.75 \times 6$

$= 48418.5 \approx 48420$

Hence, option C is correct.

7. $(780.85 + 59.98) \div 29.02 = ?$

$\approx (781 + 60) \div 29 = \frac{841}{29} = 29$

Hence, option A is correct.

8.

Given, 35% of $? \times \frac{3}{4} = 3984.75$

$? = \frac{3984.75 \times 100 \times 4}{35 \times 3} \approx 15180$

Hence, option C is correct.

9.

Given, $8\frac{4}{5} \times 5\frac{7}{9} \times 9\frac{2}{3}$

$? = \frac{44}{5} \times \frac{52}{9} \times \frac{29}{3} = 491 \approx 490.$

Hence, option A is correct.

10. $11.92^2 + 16.01^2 = ?^2 \times 3.85^2$

$?^2 \approx \frac{12^2 + 16^2}{4^2} = \frac{144 + 256}{16} = \frac{400}{16} = 25$

$\Rightarrow ?^2 \approx 5^2 \Rightarrow ? \approx 5$

Hence, option D is correct.