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Approximation Questions for Bank Clerk Pre Exams.

Approximation Quiz 16

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

1. $(\sqrt{624.983} - \sqrt{144.001}) \times (\sqrt{168.945} + \sqrt{899.923}) = ?$

A. 559   B. 609   C. 659   D. 601   E. 540

2. $59.02 - 345.02 \div 22.984 = 11 \times ?$

A. 6   B. 4   C. 9   D. 12   E. 15

3. $9.98 \% \text{ of } 99.99 \times 98.98 + 10.02 = ?$

A. 996   B. 1004   C. 1006   D. 1000   E. 1150

4. $(\sqrt{20735} \times \sqrt{2808}) - (85.01)^2 = (?)^2 + (6.99)$

A. 24   B. 16   C. 20   D. 17   E. 27

5. $18.95^2 + ? + 57.004 \times 3.023 = 398.998 \times 2.003$

A. 266   B. 270   C. 255   D. 299   E. 278

6. $\sqrt{(1743.98 - 289.03 - 365.87) \div (378.99 - 366.03)} = 3^{?-2} \div 351 \times 11$

A. 4   B. 6   C. 8   D. 3   E. 0

7. $987.98 \times \sqrt{196.03} \div 18.98 + 112.99 = ?^2$

A. 35   B. 19   C. 29   D. 31   E. 41

8. $575.9 \times 486.01 \div \sqrt{729} \div \sqrt[3]{216} = ?^3 \times \sqrt[3]{1728} \times 18$

A. 2   B. 10   C. 5   D. 15   E. 19

9. $37.87\% \text{ of } 689 - ? \times \dfrac{1089}{\sqrt[3]{1331}} = -332.05$

A. 12   B. 18   C. 6   D. 0   E. 20

10. $12.5\% \text{ of } 4608 = ? \times 23.96 \div 3.02 \times 16$

A. 8   B. 5   C. 10   D. 2   E. 15

Correct Answers:

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

Explanations:

1. Making approximation,

624.983 = 625

144.001 = 144

168.945 = 169

899.923 = 900

Now,

$(\sqrt{625} - \sqrt{144}) \times (\sqrt{169} + \sqrt{900}) = ?$

$(25 - 12) \times (13 + 30) = ?$

$13 \times 43 = ?$

$? = 559$

Hence, option (A) is correct.

2. Making approximation,

$59 - \dfrac{345}{23} = 11 \times ?$

$59 - 15 = 11 \times ?$

$44 = 11 \times ?$

$? = 44 \div 11$

$? = \dfrac{44}{11}$

$? = 4$

Hence, option (B) is correct.

3. Making approximation,

10 % of 100 × 99 + 10 = ?

$10 \times 99 + 10 = ?$

$990 + 10 = ?$

$? = 1000$

Hence, option (D) is correct.

4.   Making approximation,

$(\sqrt{20736} \times \sqrt{2809}) - (85)^2 = (?)^2 + 7$

$(144 \times 53) - 7225 = (?)^2 + 7$

$7632 - 7225 = (?)^2 + 7$

$407 = (?)^2 + 7$

$(?)^2 = 407 - 7$

$(?)^2 = 400$

$? = \sqrt{400}$

$? = 20$

Hence, option (C) is correct.

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5.   Making approximation,

$192 + ? + 57 \times 3 = 399 \times 2$

$361 + ? + 171 = 798$

$? = 798 - 361 - 171$

$? = 798 - 532$

$? = 266$

Hence, option (A) is correct.

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6. $\sqrt{(1743.98 - 289.03 - 365.87) \div (378.99 - 366.03)} = 3^{?-2} \div 351 \times 11$

$\approx \sqrt{(1744 - 289 - 366) \div (379 - 366)} = 3^{?-2} \div 351 \times 11$

$\left(\sqrt{1744 - 655}\right) \div 13 = 3^{?-2} \div 351 \times 11$

$\sqrt{1089} \div 13 \div 11 \times 351 = 3^{?-2}$

$33 \div 13 \div 11 \times 351 = 3^{?-2}$

$3^{?-2} = 81$

$3^{?-2} = 3^4$

$? - 2 = 4$

$? = 4 + 2 = 6$

Hence, option B is correct.

7. $987.98 \times \sqrt{196.03} \div 18.98 + 112.99 = ?^2$

$988 \times \sqrt{196} \div 19 + 113 = ?^2$

$988 \times 14 \div 19 + 113 = ?^2$

$52 \times 14 + 113 = ?^2$

$728 + 113 = ?^2$

$?^2 = 841$

$? = 29$

Hence, option C is correct.

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8. $575.9 \times 486.01 \div \sqrt{729} \div \sqrt[3]{216} = ?^3 \times \sqrt[3]{1728} \times 18$

$\approx 576 \times 486 \div 27 \div 6 = ?^3 \times 12 \times 18$

$576 \times 18 \div 6 \div 12 \div 18 = ?^3$

$?^3 = 8$

$? = 2$

Hence, option A is correct..

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9. $37.87\% \text{ of } 689 - ? \times \dfrac{1089}{\sqrt[3]{1331}} = -332.05$

$\approx 689 \times 38\% - ? \dfrac{1089}{11} = -332$

$261.82 - ? \times 99 = -332$

$? \times 99 = 332 + 262$

$? \times 99 = 594$

$? = 6$

Hence, option C is correct.

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10. $12.5\% \text{ of } 4608 = ? \times 23.96 \div 3.02 \times 16$

$\approx 4608 \times \dfrac{1}{8} = ? \times 24 \div 3 \times 16$

$576 \div 8 \div 16 = ?$

$? = 4.5 \approx 5$

Hence, option B is correct.