Approximation Questions for Bank Clerk Pre and PO Pre Exams.

Approximation Quiz 9

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

1. $3739 + 164 \times 27 = ?$

A. 105400 B. 4000 C. 8200 D. 690 E. 6300

2. $(8.97)^2 \times (15.05)^2 \div \sqrt{624.89} = 9^?$

A. 3 B. – 4 C. 4 D. 2 E. 5

3. $18.23 \times 23.04 \div ? + 252 = 329.07$

A. 6 B. 8 C. 4 D. 5 E. 3

4. 124% of $624.809 + 11.75\%$ of $1279.43 = ?$

A. 925 B. 940 C. 840 D. 1080 E. 1025

5. $?^2 + 34.68\%$ of $1495.89 + 279 = 3420.679$

A. 67 B. 52 C. 66 D. 56 E. 59

6. $? + 529.769 \div 5.3 \times 94.30 = 9828.543$

A. 400 B. 300 C. 430 D. 480 E. 500

7. 177.5% of $2480 + 62.989 \times 19.995 - 62.002 = ?$

A. 5575 B. 5400 C. 5612 D. 5760 E. 5650

8. $\frac{7}{16} \times 8022.66 + \frac{11}{200} \times 68224.4 = ?$

A. 7260 B. 7245 C. 7290 D. 7200 E. 7285

9. $25\frac{11}{25} + 54\frac{22}{45} - 21\frac{2}{5} - 17\frac{1}{5} + 25.729 = ?$

A. 88 B. 92 C. 85 D. 70 E. 80

10. $(216)^{1/3} + (625)^{1/4} + (1024)^{1/2} - 49.75 + 23.89 = ?$

A. 20 B. 23 C. 17 D. 19 E. 28

Correct Answers:

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

Explanations:

1. ? = 3739 + 164 × 27

= 3739 + 4428 ≈ 8200

Hence, option C is correct.

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2. $(8.97)^2 \times (15.05)^2 \div \sqrt{624.89} = 9^?$

$\Rightarrow 9^? \approx (9)^2 \times (15)^2 \div \sqrt{625}$

$\Rightarrow 9^? \approx 81 \times 225 \div \sqrt{25^2}$

$\Rightarrow 9^? \approx \frac{81 \times 225}{25}$

$\Rightarrow 9^? \approx 9^3$

$\therefore$? = 3

Hence, option A is correct.

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3. 18.23 × 23.04 ÷ ? + 252 = 329.07

$\approx \frac{18 \times 23}{?} + 252 = 329$

$\approx$ or, $\frac{18 \times 23}{?} = 77$

$\approx$ or, $\frac{18 \times 23}{77} = ? \Rightarrow ? = 5.33 \approx 5$

Hence, option D is correct.

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4. 124% of 624.809 + 11.75% of 1279.43 = ?

? ≈ 125% of 625 + 12% of 1280

? ≈ (100% of 625 + 20% of 625 + 4% of 625) + (10% of 1280 + 2% of 1280)

? ≈ (625 + 125 + 25) + (128 + 25.6)

? ≈ 775 + 153.6 = 928.6 ≈ 925.

Hence, option A is correct.

5. $?^2 + 34.68\% \text{ of } 1495.89 + 279 = 3420.679$

$\Rightarrow ?^2 \approx 3421 - (35\% \text{ of } 1496 + 279)$

$\Rightarrow ?^2 \approx 3421 - (30\% \text{ of } 1496 + 5\% \text{ of } 1496 + 279)$

$\Rightarrow ?^2 \approx 3421 - (448.8 + 74.8 + 279)$

$\Rightarrow ?^2 \approx 3421 - (802.6)$

$\Rightarrow ?^2 \approx 2618 \Rightarrow ?^2 \approx (52)^2$

$\Rightarrow ? = 52$

Hence, option B is correct.

6. $? + 529.769 \div 5.3 \times 94.30 = 9828.543$

$? \approx 9829 - (530 \div 5.3 \times 94)$

$? \approx 9829 - (100 \times 94)$

$? \approx 9829 - 9400 = 429 \approx 430.$

Hence, option C is correct.

7. $177.5\% \text{ of } 2480 + 62.989 \times 19.995 - 62.002 = ?$

$\Rightarrow ? \approx 178\% \text{ of } 2480 + 63 \times 20 - 62$

$\Rightarrow ? \approx (100\% \text{ of } 2480 + 50\% \text{ of } 2480 + 20\% \text{ of } 2480 + 8\% \text{ of } 2480) + 63 \times 20 - 62$

$\Rightarrow ? \approx (2480 + 1240 + 496 + 198.4) + 1260 - 62$

$\Rightarrow ? \approx 2480 + 1240 + 496 + 198.4 + 1198 = 5612.4$

$\Rightarrow ? \approx 5612.$

Hence, option C is correct.

8.

$$\frac{7}{16} \times 8022.66 + \frac{11}{200} \times 68224.4 = ?$$

$$\Rightarrow ? \approx \frac{7}{16} \times 8023 + \frac{11}{200} \times 68224$$

$\Rightarrow ? \approx 7 \times 501.4 + 11 \times 341.4$

$\Rightarrow ? \approx 7 \times 501.4 + 11 \times 341.4$

$\Rightarrow ? \approx 7 \times 501 + 11 \times 341$

$\Rightarrow ? \approx 3507 + 3751 = 7258 \approx 7260.$

Hence, option A is correct.

9.

$25\frac{11}{25} + 54\frac{22}{45} - 21\frac{2}{5} - 17\frac{1}{5} + 25.729 = ?$

Taking the whole numbers and fractions separately, we get

$? = [25 + 54 - 21 - 17] + (\frac{11}{25} + \frac{22}{45} - \frac{2}{5} - \frac{1}{5})$

$? = [66] + (0.4 + 0.5 - 0.4 - 0.2 + .73)$

$? \approx 66 + 1 = 67 \approx 70.$

Hence, option D is correct.

10. $(216)^{1/3} + (625)^{1/4} + (1024)^{1/2} - 49.75 + 23.89 = ?$

$? \approx (63)^{1/3} + (54)^{1/4} + (322)^{1/2} - 50 + 24$

$? \approx 6 + 5 + 32 + 24 - 50 = 17.$

Hence, option C is correct.