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Approximation Questions for Bank Clerk Pre Exams.

Approximation Quiz 19

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

1. $(626.72 - 257.65) \div 23.52 + 623.86 = ?$

- A. 540 B. 720 C. 640 D. 340 E. 567

2. $\sqrt{10200} \times \sqrt{9215} - (43.96)^2 = ? + (64.105)^2$

- A. 6332 B. 4664 C. 5237 D. 3664 E. 6230

3. $2462.92 \times 390.06 - 17651.201 = ? + 4883.001$

- A. 938036 B. 920051 C. 852016 D. 732105 E. 658036

4. $1458.45 + 2065.23 \div 15.02 = ? - 652.793$

- A. 2149 B. 2295 C. 2249 D. 2109 E. 2529

5. $29.783\% \text{ of } 3231 + 48.729\% \text{ of } 4003 = ? - 4823.72$

- A. 8504 B. 7754 C. 7454 D. 6416 E. 5354

6. $(11.8)^4 + 136\% \text{ of } 24 = ? \% \text{ of } 64$

- A. 16729 B. 18443 C. 32452 D. 28561 E. 38545

7. $63.5\% \text{ of } 8924.2 + ?\% \text{ of } 5324.4 = 6827.5862$

- A. 36 B. 21 C. 31 D. 9 E. 17

8. $299 \div 12 \times 13.95 + ? = 24.02^2$

- A. 285 B. 226 C. 325 D. 150 E. 185

9. $620.15 + 1379.85 + 120.01 \times 3.99 = ?$

- A. 4000 B. 3900 C. 2480 D. 2000 E. 2300

10. $(19.97\% \text{ of } 781) + ? + (30\% \text{ of } 87) = 252$

- A. 40 B. 50 C. 25 D. 70 E. 80

Correct Answers:

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

Explanations:

1. $(626.72 - 257.65) \div 23.52 + 623.86 = ?$

or, $? \approx (627 - 258) \times \frac{1}{23} + 624$

or, $? \approx 369 \times \frac{1}{23} + 624$

or, $? \approx 16.04 + 624 \approx 640$

Hence, option (C) is correct.

2. $\sqrt{10200} \times \sqrt{9215} - (43.96)^2 = ? + (64.105)^2$

or, $? \approx \sqrt{10201} \times \sqrt{9216} - (44)^2 - (64)^2$

$= 101 \times 96 - 1936 - 4096$

$= 9696 - 6032 = 3664$

Hence, option (D) is correct.

3. $2462.92 \times 390.06 - 17651.201 = ? + 4883.001$

or, $? \approx 2463 \times 390 - 17651 - 4883$

$= 960570 - 22534 = 938036$

Hence, option (A) is correct.

4. $1458.45 + 2065.23 \div 15.02 = ? - 652.793$

or, $? \approx 1458 + 2065 \times \frac{1}{15} + 653$

$\approx 1458 + 137.66 + 653 \approx 2249$

Hence, option (C) is correct.

5. $29.783\% \text{ of } 3231 + 48.729\% \text{ of } 4003 = ? - 4823.72$

or, $? \approx \frac{30}{100} \times 3231 + \frac{49}{100} \times 4003 + 4824$

or, $? \approx 969.3 + 1961.47 + 4824$

or, $? \approx 7754$

Hence, option (B) is correct.

6. $(11.8)^4 + 136\% \text{ of } 24 = ?\% \text{ of } 64$

$$\approx (12)^4 + \frac{136}{100} \times 24 = \frac{?}{100} \times 64$$

$$\approx (20736 + 32.64) \times 100 = ? \times 64$$

$$\approx (20736 + 33) \times 100 = ? \times 64$$

$$? \approx \frac{2076900}{64} = 32451.56 \approx 32452$$

Hence, option C is correct.

7. $63.5\% \text{ of } 8924.2 + ?\% \text{ of } 5324.4 = 6827.5862$

$$\approx 64\% \text{ of } 8924 + X\% \text{ of } 5324 = 6828$$

$$\Rightarrow \frac{64}{100} \times 8924 + \frac{X}{100} \times 5324 = 6828$$

$$\Rightarrow 5711.36 + \frac{5324 X}{100} = 6828$$

$$\Rightarrow X = \frac{(6828 - 5711)}{5324} \times 100$$

$$\Rightarrow X = 20.98 \Rightarrow X \approx 21$$

Hence, option B is correct.

8. $(299 \div 12 \times 13.95 + ? = 24.02^2)$

$$\approx 300 \div 12 \times 14 + ? = 24^2$$

$$\approx 25 \times 14 + ? = 576$$

$$\approx 350 + ? = 576$$

$$\approx ? = 576 - 350 = 226$$

Hence, option B is correct.

9. $620.15 + 1379.85 + 120.01 \times 3.99 = ?$

$$\Rightarrow ? = 620 + 1380 + 120 \times 4$$

$$\Rightarrow ? = 620 + 1380 + 480 = 2480$$

Hence, option C is correct.

10. $(19.97\% \text{ of } 781) + ? + (30\% \text{ of } 87) = 252$

$$\approx (20\% \text{ of } 780) + ? + (30\% \text{ of } 90) = 252$$

$$\approx 156 + ? + 27 = 252$$

$$\approx ? = 252 - 183 = 69$$

$$\approx ? = 70$$

Hence, option D is correct.



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