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# Approximation Questions for Bank Clerk Pre and PO Pre Exams.

## Approximation Quiz 7

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

1.  $(674.85 + 59.98) \div 35.02 = ?$

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

2.  $(64.01)^2 \times (65)^{1/3} \times (25.99)^2 \div \{211 \times (12.97)^2\} = 2^?$

- A. 4                      B. 5                      C. 2                      D. 3                      E. 6

3.  $\frac{3}{10}$  of 111 = ?  $\div (1.8 \times 0.499)$

- A. 100                      B. 10                      C. 3                      D. 30                      E. 60

4.  $\sqrt{1024.002} \div 3.996 \div 9.98 + 29 = ?$

- A. 3                      B. 9                      C. 30                      D. 90                      E. 80

5.  $(24.99\% \text{ of } 399.995) \div ? = (125\% \text{ of } 4.111)^2$

- A. 80                      B. 4                      C. 60                      D. 16                      E. 40

6.  $\sqrt{?} = (1248.28 + 51.7) \div 99.9 - 7.98$

- A. 49                      B. 81                      C. 64                      D. 16                      E. 25

7.  $1439 \div 16 \times 14.99 + \sqrt{228} = ?$

- A. 1315                      B. 1365                      C. 1215                      D. 1465                      E. 1265

8.  $11.92^2 + 16.01^2 = ?^2 \times 3.85^2$

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

9.  $(19.97\% \text{ of } 781) + ? + (30\% \text{ of } 87) = 252$

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

10.  $39.97\% \text{ of } 649.8 \div 13.05 = 45.12 - ?$

- A. 40                      B. 15                      C. 25                      D. 10                      E. 30

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
D	B	D	C	B	E	B	D	D	C

**Explanations:**

**1.**  $(674.85 + 59.98) \div 35.02 = ?$

$$\approx (675 + 60) \div 35 = \frac{735}{35} = 21$$

Hence, option D is correct.

**2.**  $(64.01)^2 \times (65)^{1/3} \times (25.99)^2 \div \{2^{11} \times (12.97)^2\} = 2^?$

$$\Rightarrow 2^? \approx (64)^2 \times (64)^{1/3} \times (26)^2 \div \{2^{11} \times (13)^2\}$$

$$\Rightarrow 2^? \approx \frac{64 \times 64 \times (4^3)^{1/3} \times 26 \times 26}{2^{11} \times (13)^2}$$

$$\Rightarrow 2^? \approx \frac{2^6 \times 2^6 \times 4 \times 26 \times 26}{2^{11} \times (13)^2}$$

$$\Rightarrow 2^? \approx \frac{2^{12} \times 2^2 \times 26 \times 26}{2^{11} \times 13 \times 13}$$

$$\Rightarrow 2^? \approx \frac{2^{14-11} \times 2 \times 13 \times 2 \times 13}{13 \times 13}$$

$$\Rightarrow 2^? \approx 2^3 \times 2 \times 2 = 2^5$$

Hence, option B is correct.

**3.**

$$\frac{3}{10} \text{ of } 111 = ? \div (1.8 \times 0.499)$$

$$\approx \frac{3}{10} \times 110 = ? \div (2 \times 0.5)$$

$$\approx 3 \times 11 = ? \div 1$$

$$? \approx 33 \approx 30.$$

Hence, option D is correct.

4.  $\sqrt{1024.002} \div 3.996 \div 9.98 + 29 = ?$

$? \approx \sqrt{1024} \div 4 \div 10 + 29 = ?$

$? \approx \frac{\sqrt{32^2}}{4 \times 10} + 29$

$? \approx \frac{32}{4 \times 10} + 29 = 29.8 = 30$

Hence, option C is correct.

5.  $(24.99\% \text{ of } 399.995) \div ? = (125\% \text{ of } 4.111)^2$

$\Rightarrow 25\% \text{ of } 400 \div ? = (125\% \text{ of } 4)^2$

$\Rightarrow 100 \div ? = (5)^2$

$\Rightarrow ? \approx 4$

Hence, option B is correct.

6.  $\sqrt{?} = (1248.28 + 51.7) \div 99.9 - 7.98$

$\sqrt{?} \approx (1300) \div 100 - 8$

$\sqrt{?} \approx \frac{1300}{100} - 8 = 13 - 8 = 5$

$\sqrt{?} \approx 5 \Rightarrow ? \approx 5^2 = 25$

Hence, option E is correct.

7.  $1439 \div 16 \times 14.99 + \sqrt{228} = ?$

$? \approx 1440 \div 16 \times 15 + \sqrt{225}$

$? \approx 90 \times 15 + \sqrt{15^2}$

$? \approx 1350 + 15 = 1365.$

Hence, option B is correct.

8.  $11.92^2 + 16.01^2 = ?^2 \times 3.85^2$

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

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

Hence, option D is correct.

**9.**  $(19.97\% \text{ of } 781) + ? + (30\% \text{ of } 87) = 252$

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

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

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

$$\approx ? = 70$$

Hence, option D is correct.

**10.**  $39.97\% \text{ of } 649.8 \div 13.05 = 45.12 - ?$

$$= 40\% \text{ of } 650 \div 13 \approx 45 - ?$$

$$\text{Or, } \frac{40 \times 650}{100} \times \frac{1}{13} \approx 45 - ?$$

$$\text{Or, } 20 \approx 45 - ?$$

$$\text{Or, } ? \approx 45 - 20 = 25$$

Hence, option C is correct.



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