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# Approximation Questions for Bank Clerk Pre Exams.

## Approximation Quiz 13

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

1.  $\frac{599}{51} \times \frac{401}{79} \div \frac{31}{199} = ?$

- A. 500                      B. 400                      C. 460                      D. 520                      E. 420

2.  $441.01 - 232.9 + 1649.99 = ? + 1225.92$

- A. 690                      B. 720                      C. 662                      D. 602                      E. 632

3.  $(21.5\% \text{ of } 1001)^{1/3} + (43\% \text{ of } 599)^{1/2} = ?$

- A. 18                      B. 26                      C. 30                      D. 22                      E. 33

4.  $(524.21 + 126.108) \times 21.09 = ?$

- A. 12650                      B. 13650                      C. 14650                      D. 15650                      E. 16650

5.  $6399 \times 1\frac{5}{8} + 353 \div ? = 10444$

- A. 14                      B. 22                      C. 2                      D. 16                      E. 8

6.  $\sqrt{(624)} \times 14.02 + \sqrt{(404)} \times 15.97 = ?$

- A. 670                      B. 570                      C. 701                      D. 710                      E. 610

7.  $8461 \div 11.99 - 24.01 \div \frac{5}{100} = ?$

- A. 625                      B. 400                      C. 25                      D. 900                      E. 225

8.  $14.85\% \text{ of } 679 + 19.9\% \text{ of } 219.83 = ?$

- A. 115                      B. 145                      C. 65                      D. 105                      E. 85

9.  $1441 \div ? + 149.98 \times 14.99 = 254, 91$

- A. 3                      B. 15                      C. 25                      D. 45                      E. 5

10.  $\sqrt{1230} + \sqrt{4230} = ?$

- A. 50                      B. 200                      C. 100                      D. 150                      E. 250

**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>
B	E	D	B	E	A	E	B	A	C

**Explanations:**

**1.**

$$? = \frac{599}{51} \times \frac{401}{79} \div \frac{31}{199}$$

$$? \approx \frac{600}{50} \times \frac{400}{80} \times \frac{200}{30}$$

$$? \approx 400$$

Hence, option B is correct.

**2.**  $441.01 - 232.9 + 1649.99 = ? + 1225.92$

$$? = 441.01 - 232.9 + 1649.99 - 1225.92$$

$$? \approx 441 - 233 + 1650 - 1226 \approx 632$$

Hence, option E is correct.

**3.**  $? = (21.5\% \text{ of } 1001)^{1/3} + (43\% \text{ of } 599)^{1/2}$

$$? \approx (21.5\% \text{ of } 1000)^{1/3} + (43\% \text{ of } 600)^{1/2}$$

$$? \approx \left(\frac{21.5}{100} \times 1000\right)^{1/3} + \left(\frac{43}{100} \times 600\right)^{1/2}$$

$$? \approx (215)^{1/3} + (258)^{1/2}$$

$$? \approx 6 + 16 \approx 22$$

Hence, option D is correct.

**4.**  $? = (524.21 + 126.108) \times 21.09$

$$? \approx (524 + 126) \times 21$$

$$? \approx 650 \times 21 \approx 13650$$

Hence, option B is correct.

**5.**

$$6399 \times 1\frac{5}{8} + 353 \div ? = 10444$$

In approximation,

$$6400 \times \frac{13}{8} + 353 \div ? = 10444$$

$$10400 + 353 \div ? = 10444$$

$$353 \div ? = 10444 - 10400 = 44$$

$$? = 353 \div 44 \approx 8$$

Hence, option E is correct.

**6.**  $\sqrt{(624)} \times 14.02 + \sqrt{(404)} \times 15.97 = ?$

$$\approx \sqrt{(625)} \times 14 + \sqrt{(400)} \times 16 = ?$$

$$\approx 25 \times 14 + 20 \times 16$$

$$\approx 350 + 320 \approx 670$$

Hence, option A is correct.

**7.**

$$? = 8461 \div 11.99 - 24.01 \div \frac{5}{100}$$

$$? \approx 8460 \div 12 - 24 \times \frac{100}{5}$$

$$\approx 705 - 480 \approx 225$$

Hence, option E is correct.

**8.**  $? = 14.85\% \text{ of } 679 + 19.9\% \text{ of } 219.83$

$$? \approx 15\% \text{ of } 680 + 20\% \text{ of } 220$$

$$? \approx \frac{15}{100} \times 680 + \frac{20}{100} \times 220$$

$$\approx 102 + 44 \approx 146 \approx 145$$

Hence, option B is correct.

9.  $1441 \div ? + 149.98 \times 14.99 = 3006 - 254.91$

In approximation,

$$\frac{1441}{?} + 150 \times 15 = 3006 - 255$$

$$\frac{1441}{?} + 2250 = 2751$$

$$\frac{1441}{?} = 2751 - 2250 = 501$$

$$? \approx \frac{1440}{500} \approx 2.88 \approx 3$$

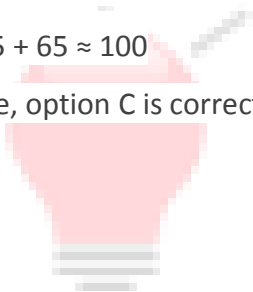
Hence, option A is correct.

10.  $? = \sqrt{1230} + \sqrt{4230}$

$$? \approx \sqrt{1225} + \sqrt{4225}$$

$$? \approx 35 + 65 \approx 100$$

Hence, option C is correct.



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