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# Approximations Questions for IBPS Clerk, IBPS PO Pre, IBPS SO Pre, SBI Clerk, SBI PO Pre, RRB Scale I Pre

## Approximations Quiz 23

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

1.  $(25.16 \times 16.01) \div (12 \times 18.94) + 24.10 + \sqrt{37} \times \sqrt{2.26} = ?$

- A. 25      B. 35      C. 45      D. 50      E. 55

2.  $(\sqrt{2501})\% \text{ of } 500 - ?^2 - (\sqrt{2027})\% \text{ of } 215.32 = 50 - 15.34$

- A. 11      B. 121      C. 12      D. 14      E. 144

3.  $\sqrt{(2602)} \div 16.99 + \sqrt{(1225.20)} \times 5.01 \div 24.99 = ?^2 - 88.89$

- A. 25      B. 5      C. 100      D. 10      E. 7

4.  $(95.01^2 - 68.02^2) \div 26.99 \times \sqrt{?} = 7987$

- A. 1600      B. 2025      C. 1225      D. 2401      E. 2805

5.  $43.97\% \text{ of } 550 + 23.99\% \text{ of } 250 - 33.94\% \text{ of } 350 = ?\% \text{ of } 60$

- A. 354      B. 305      C. 385      D. 260      E. 360

6.  $(5400 + \sqrt{?} \times 35.99) \div 45.04 = 140$

- A. 25      B. 324      C. 625      D. 144      E. 256

7.  $6239 \times 1\frac{3}{8} + 4250 \div ? = 10706$

- A. 0                      B. 10                      C. 2                      D. 20                      E. 8

8.  $1432 \div ? + 132.18 \times 25.87 = 3156 - 262.91$

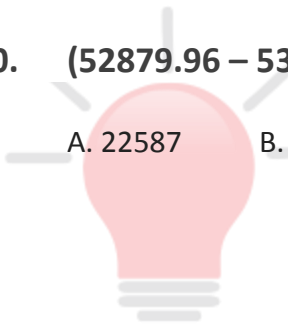
- A. -1                      B. -3                      C. 7                      D. -8                      E. 10

9.  $\frac{45.003 \times 16.003 - 9.004 \times 14.003}{(8.001)^2 - \sqrt{255} + (11.003)^2} = ?$

- A. 4                      B. 8                      C. 12                      D. 6                      E. 10

10.  $(52879.96 - 5327.01 + 982.03) - (480.11 \times 47.001) = ?$

- A. 22587                      B. 35673                      C. 23832                      D. 25975                      E. 38376



**Correct answer:**

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

**Explanation:**

**1.**

$$(25.16 \times 16.01) \div (12 \times 18.94) + 24.10 + \sqrt{37} \times \sqrt{2.26} = ?$$

$$? \approx (25 \times 16) \div (12 \times 19) + 24 + \sqrt{36} \times \sqrt{2.25}$$

$$= \frac{25 \times 16}{12 \times 19} + 24 + 6 \times 1.5 = ?$$

$$= \frac{400}{228} + 24 + 9 = ?$$

$$1.75 + 33 = ?$$

$$? = 34.75 \approx 35$$

Hence, option B is correct.

**2.**

$$(\sqrt{2501})\% \text{ of } 500 - ?^2 - (\sqrt{2027})\% \text{ of } 215.32 = 50 - 15.34$$

$$\approx (\sqrt{2500})\% \text{ of } 500 - ?^2 - (\sqrt{2025})\% \text{ of } 215 = 50 - 15$$

$$= 50\% \text{ of } 500 - ?^2 - 45\% \text{ of } 215 = 50 - 15$$

$$= 250 - ?^2 - 97 = 35$$

$$?^2 = 250 - 35 - 97$$

$$?^2 = 118 \approx 121$$

$$? = 11$$



Hence, option A is correct

**3.**

$$\sqrt{(2602)} \div 16.99 + \sqrt{(1225.20)} \times 5.01 \div 24.99 = ?^2 - 88.89$$

$$\approx \sqrt{(2601)} \div 17 + \sqrt{(1225)} \times 5 \div 25 = ?^2 - 89$$

$$= 51 \div 17 + 35 \div 5 = ?^2 - 89$$

$$= 3 + 7 + 89 = ?^2$$

$$= ?^2 = 99 \approx 100$$

$$? = 10$$

Hence, option D is correct.

**4.**

Approximating the numbers in the above expression:

$$\Rightarrow (95^2 - 68^2) \div 27 \times \sqrt{?} = 7987$$

$$\Rightarrow [(95 + 68) \times (95 - 68)] \div 27 \times \sqrt{?} = 7987$$

$$\Rightarrow (163 \times 27) \div 27 \times \sqrt{?} = 7987$$

$$\Rightarrow 163 \times \sqrt{?} = 7987$$

$$\Rightarrow \sqrt{?} = \frac{7987}{163} = 49$$

$$\therefore ? = 49^2 = 2401$$

Hence, option D is correct.

**5.**

$$43.97\% \text{ of } 550 + 23.99\% \text{ of } 250 - 33.94\% \text{ of } 350 = ?\% \text{ of } 60$$

Approximating the numbers in the above expression:

$$\Rightarrow 44\% \text{ of } 550 + 24\% \text{ of } 250 - 34\% \text{ of } 350 = ?\% \text{ of } 60$$

$$\Rightarrow 242 + 60 - 119 = ?\% \text{ of } 60$$

$$\Rightarrow 183 = ?\% \text{ of } 60$$

$$\therefore ? = 305$$

Hence, option B is correct.

**6.**

Approximating the numbers in the above expression:

$$\Rightarrow (5400 + \sqrt{?} \times 36) \div 45 = 140$$

$$\Rightarrow 5400 + \sqrt{?} \times 36 = 140 \times 45$$

$$\Rightarrow \sqrt{?} \times 36 = 6300 - 5400 = 900$$

$$\Rightarrow \sqrt{?} = \frac{900}{36} = 25$$

$$\therefore ? = 25^2 = 625$$

Hence, option C is correct.

**7.**

$$6239 \times 1\frac{3}{8} + 4250 \div ? = 10706$$

$$\approx 6241 \times \frac{11}{8} + 4250 \div ? = 10706$$

$$8581 + 4250 \div ? = 10706$$

$$4250 \div ? = 10706 - 8581$$

$$4250 \div ? = 2125$$

$$? = 4250 \div 2125 = 2$$

Hence, option C is correct

**8.**

$$1432 \div ? + 132.18 \times 25.87 = 3156 - 262.91$$

$$\frac{1432}{?} + 132 \times 26 = 3156 - 263$$

$$\frac{1432}{?} + 3432 = 2893$$

$$\frac{1432}{?} = 2893 - 3432 = -539$$

$$? \approx \frac{1432}{539} = -2.65 \approx -3$$

Hence, option B is correct.

**9.**

$$? \approx \frac{45 \times 16 - 9 \times 14}{64 - \sqrt{256} + 121} = \frac{720 - 126}{64 - 16 + 121}$$

$$= \frac{594}{185 - 16} = \frac{594}{169} \approx 4$$

Hence, option A is correct.

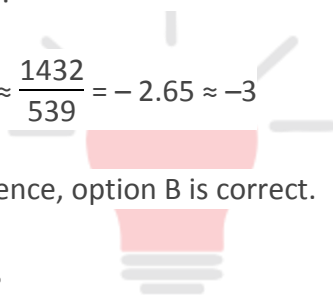
**10.**

$$\approx 52880 - 5327 + 982 - 480 \times 47$$

$$= 52880 - 5327 + 982 - 22560$$

$$= 53682 - 27887 = 25975$$

Hence, option D is correct.



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