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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 24

Directions: Find the approximate value which should come in place of Question mark (?) in the following question.

1.  $27.003 \times 4.99 \times (145.003 \div 28.97) - (12.001 \times 3.94) + 127.03 - 29.14 = ?$

- A. 678                      B. 725                      C. 789  
D. 925                      E. 806

2.  $20.01 \times \sqrt{1024} + 159 = ?^2 + 536$

- A. 10                      B. 16                      C. 21  
D. 26                      E. 35

3.  $25.1\% \text{ of } 5902 = ? \times 55.96 \div 3.82 \times 20$

- A. 1                      B. 2                      C. 3  
D. 5                      E. 7

4.  $53.15\% \text{ of } 426 - 30.45\% \text{ of } 745 = ?^2 - 512 - \sqrt{1600}$

- A. 08                      B. 15                      C. 24  
D. 27                      E. 60

5.  $27.031 \times 328.001 + 37.081 - ? = 2628.31 + 37.035 - 36.745 \times 4.125$

- A. 5008                      B. 6302                      C. 6376  
D. 5306                      E. 6478

6.  $1535 \sqrt{35} + 20\% \text{ of } ? - 124.15 \text{ of } \frac{1}{9} = 6960$

- A. 10490                      B. - 10490                      C. 15490  
D. 10590                      E. 10450

7.  $\frac{162.13 \times 9 - (10648)}{16 \times 14 + 245 + (?)^2} = 5$

- A. 13                              B. 16                              C. 19  
D. 22                              E. 25

8.  $\sqrt{3026.001 + (12.969)^2} = ? \div \frac{6}{23.892}$

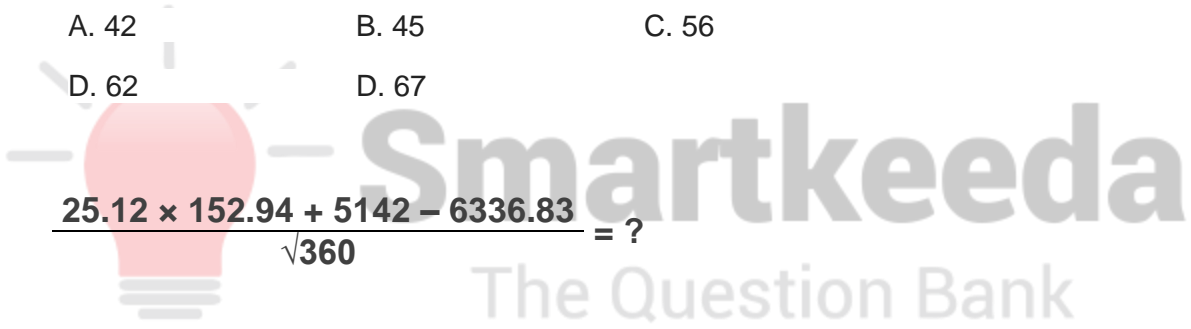
- A. 42                              B. 45                              C. 56  
D. 62                              E. 67

9.  $\frac{25.12 \times 152.94 + 5142 - 6336.83}{\sqrt{360}} = ?$

- A. 139                              B. 119                              C. 209  
D. 154                              E. 148

10.  $\frac{82.958 \times 22.001 - 16.04 \times 3.11}{(9.002)^2 - \sqrt{145 + (16.997)^2}} = ?$

- A. 1                                B. 3                                C. 9  
D. 7                                E. 5



### Correct answers:

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

### Explanations:

1.

$$\begin{aligned} ? &\approx 27 \times 5 \times \frac{145}{29} - 12 \times 4 + 127 - 29 \\ &\approx 135 \times 5 - 48 + 127 - 29 \\ &= 675 - 48 + 127 - 29 \\ &= 802 - 77 = 725 \end{aligned}$$

Hence, option B is correct.

2.

$$20.01 \times \sqrt{1024} + 159 = ?^2 + 536$$

$$20 \times \sqrt{1024} + 159 = ?^2 + 536$$

$$20 \times 32 + 159 = ?^2 + 536$$

$$640 + 159 = ?^2 + 536$$

$$799 - 536 = ?^2$$

$$?^2 = 263$$

$$? = 16.21 \approx 16$$

Hence, option B is correct.

3.

$$25.1 \% \text{ of } 5902 = ? \times 55.96 \div 3.82 \times 20$$

$$= 5902 \times \frac{1}{4} = ? \times 56 \div 4 \times 20$$

$$1476 \div 14 \div 20 = ?$$



$$? = 5.27 \approx 5$$

Hence, option D is correct.

**4.**

$$53.15\% \text{ of } 426 - 30.45\% \text{ of } 745 = ?^2 - 512 - \sqrt{1600}$$

$$53\% \text{ of } 426 - 30\% \text{ of } 745 = ?^2 - 512 - 40$$

$$225.78 - 223.5 + 512 + 40 = ?^2$$

$$?^2 = 226 - 223 + 512 + 40$$

$$?^2 = 555$$

$$?^2 = 23.55 \approx 24$$

Hence, option C is correct.

**5.**

$$27 \times 328 + 37 - ? \approx 2628 + 37 - 37 \times 4$$

$$\text{Or, } ? \approx (27 \times 328 + 37) - (2628 + 37 - 37 \times 4) = (8856 + 37) - (2665 - 148)$$

$$= 8893 - 2517 = 6376$$

Hence, option C is correct.

**6.**

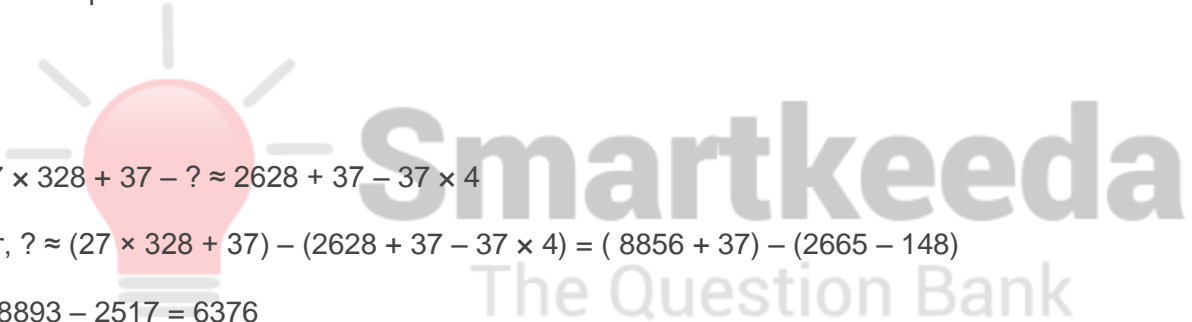
$$1535\sqrt{35} + 20\% \text{ of } ? - 124.15 \text{ of } \frac{1}{9} = 6960$$

$$\text{or, } 1535 \times 5.916 + ? \times \frac{1}{5} - 124 \times \frac{1}{9} = 6960$$

$$\text{or, } 9071.85 + \frac{?}{5} - 13.77 = 6960$$

$$\text{Or, } \approx 9072 + \frac{?}{5} - 14 = 6960$$

$$\text{Or, } \frac{?}{5} \approx 6960 + 14 - 9072 = 6974 - 9072$$



$$\text{Or, } \frac{?}{5} = -2098$$

$$\text{Or, } ? = -2098 \times 5 = -10490$$

Hence, option B is correct.

**7.**

$$\frac{162.13 \times 9 - (\sqrt[3]{10648})}{16 \times 14 + 245 + (?)^2} = 5$$

$$= \frac{1458 - 22}{224 + 245 + (?)^2} = 5$$

$$= \frac{1436}{469 + (?)^2} = 5$$

$$1436 = 5 \times (469 + (?)^2)$$

$$1436 = 2345 + 5 \times (?)^2$$

$$5 \times (?)^2 = -909$$

$$(?)^2 \approx -181$$

$$(?)^2 = 13.45^2$$

$$(?) \approx 13$$

Hence, option A is correct

**8.**

$$\frac{(\sqrt{3026.001}) + (12.969)^2}{\div} = ? \quad \frac{6}{23.892}$$

$$\text{Or, } ? \approx (\sqrt{3025}) + (13)^2 \times \frac{6}{24}$$

$$\text{Or, } ? = (55 + 169) \times \frac{6}{24}$$

$$\Rightarrow \frac{224 \times 6}{24} = 56$$

Hence, option C is correct

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**9.**

$$\frac{25.12 \times 152.94 + 5142 - 6336.83}{\sqrt{360}} = ?$$

$$? = \frac{25.12 \times 152.64 + 5142 - 6336.83}{\sqrt{361}}$$

$$\approx \frac{25 \times 153 + 5142 - 6337}{\sqrt{360}}$$

$$\approx \frac{3825 + 5142 - 6337}{19}$$

$$= \frac{8967 - 6337}{19}$$

$$= \frac{7630}{19}$$

$$= 138.42 \approx 139$$

Hence, option A is correct.

**10.**

$$\frac{82.958 \times 22.001 - 16.04 \times 3.11}{(9.002)^2 - \sqrt{145} + (16.997)^2} = ?$$

$$= ? \frac{82.958 \times 22.001 - 16.04 \times 3.11}{(9.002)^2 - \sqrt{145} + (16.997)^2}$$

$$\text{or, } ? \approx \frac{83 \times 22 - 16 \times 3}{81 - \sqrt{144} + 289} = \frac{1826 - 48}{81 - 12 + 289}$$

$$= \frac{1778}{370 - 12} = \frac{1778}{358} = 4.966 \approx 5$$

Hence, option E is correct.



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