

Quiz Date: 13th March 2020

Directions (1-15): Find out the value which should replace the question mark (?) in the following questions.

Q1. 74% of 2275 + $\frac{7^3}{2}$ + 4% of ? = 2×31^2

- (a) 1575
- (b) 1475
- (c) 1275
- (d) 1675
- (e) 1550

Q2. $\frac{2250}{75} + 139 = (?)^2 - 48\%$ of 750 - 200

- (a) 16
- (b) 18
- (c) 20
- (d) 27
- (e) 22

Q3. 240% of 400 + $36^2 - 60\%$ of 2000 = $25^2 + ?$

- (a) 421
- (b) 431
- (c) 441
- (d) 411
- (e) 401

Q4. $3028 + 672 - 40\%$ of ? + $10^3 = 60^2 - \sqrt{10000}$

- (a) 4000
- (b) 3500
- (c) 2000
- (d) 2500
- (e) 3000

Q5. $\sqrt{430 + 520 + \sqrt{121}} = ?^2 + \sqrt{36}$

- (a) 2
- (b) 3
- (c) 8
- (d) 5
- (e) 9

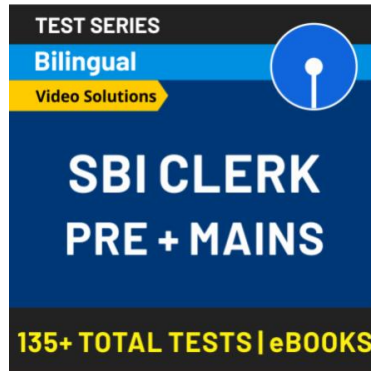
Q6. 264% of 110 + $\frac{685}{3} \%$ of 48 = $?^2$

- (a) 11
- (b) 5

- (c) 20
- (d) 10
- (e) 12

Q7. $105406 + 82594 - 116000 = 200 \times ?$

- (a) 720
- (b) 504
- (c) 360
- (d) 704
- (e) 840



Q8. $132 \div \frac{1}{8} \div 44 - 2750 \div 1375 = ?$

- (a) 16
- (b) 18
- (c) 22
- (d) 10
- (e) 28

Q9. $21609 \div 147 \div 21 + 336 = 7^?$

- (a) 1
- (b) 2
- (c) 0.5
- (d) 1.5
- (e) 3

Q10. $528 \div 48 + 570 \div 15 = ? \div 5$

- (a) 235
- (b) 305
- (c) 255
- (d) 245
- (e) 205

Q11. $35\% \text{ of } 1600 + 30\% \text{ of } 4500 = ? \times 10 + 470 + 770 - 200$

- (a) 76
- (b) 80
- (c) 87

- (d) 90
(e) 96

Q12. $50 \times 20 - 25 \times 14 = (36 + ?) \times 9 - 7 \times ?$

- (a) 173
(b) 181
(c) 136
(d) 142
(e) 163

Q13. $?% \text{ of } (5000) + 730 + 14430 = 5\frac{1}{5} \text{ of } 195 + 6\frac{1}{4} \text{ of } 2300 + 21$

- (a) 4
(b) 9
(c) 5
(d) 7
(e) 6



Q14. $(74)^2 + (39)^2 - (57)^2 = 3748$

- (a) 4
(b) 3
(c) 2
(d) 5
(e) 6

Q15. $\frac{(37)^2 - (17)^2}{?} = 18$

- (a) 50
(b) 60
(c) 70
(d) 80
(e) 48

Solutions

S1. Ans.(d)

Sol. $\frac{74}{100} \times 2275 + \frac{343}{2} + \frac{4}{100} \times ? = 1922$

$$\frac{3367}{2} + \frac{343}{2} + 0.04 \times ? = 1922$$

$$0.04 \times ? = 1922 - 1855$$

$$? = \frac{67}{0.04}$$

$$? = 1675$$

S2. Ans.(d)

$$\text{Sol. } \frac{2250}{75} + 139 = (?)^2 - \frac{48}{100} \times 750 - 200$$

$$30 + 139 = (?)^2 - 360 - 200$$

$$(?)^2 = 169 + 560$$

$$(?) = 27$$

S3. Ans.(b)

$$\text{Sol. } \frac{240}{100} \times 400 + 1296 - \frac{60}{100} \times 2000 = 625 + ?$$

$$960 + 1296 - 1200 - 625 = ?$$

$$? = 431$$

S4. Ans.(e)

$$\text{Sol. } 3028 + 672 - 40\% \text{ of } ? + (10)^3 = (60)^2 - \sqrt{10000}$$

$$3700 + 1000 + 100 - 3600 = \frac{40 \times ?}{100}$$

$$? = 3000$$

S5. Ans.(d)

$$\text{Sol. } \sqrt{430 + 520} + \sqrt{121} = (?)^2 + \sqrt{36}$$

$$\sqrt{430 + 520 + 11} = (?)^2 + 6$$

$$31 - 6 = (?)^2$$

$$? = 5$$

S6. Ans.(c)

$$\text{Sol. } \frac{264}{100} \times 110 + \frac{685}{300} \times 48 = ?^2$$

$$290.4 + 109.6 = ?^2$$

$$? = \sqrt{400}$$

$$? = 20$$

S7. Ans.(c)

$$\text{Sol. } 105406 + 82594 - 116000 = 200 \times ?$$

$$188000 - 116000 = 200 \times ?$$

$$\frac{72000}{200} = ?$$

$$? = 360$$

S8. Ans.(c)

$$\text{Sol. } \frac{132 \times 8}{44} - \frac{2750}{1375} = ?$$

$$24 - 2 = ?$$

$$? = 22$$

S9. Ans.(e)

$$\text{Sol. } \frac{21609}{147 \times 21} + 336 = 7^?$$

$$7 + 336 = 7^?$$

$$7^3 = 7^?$$

$$? = 3$$

S10. Ans.(d)

$$\text{Sol. } \frac{528}{48} + \frac{570}{15} = \frac{?}{5}$$

$$? = (11 + 38) \times 5$$

$$? = 49 \times 5$$

$$? = 245$$



S11. Ans.(c)

$$\text{Sol. } 35\% \text{ of } 1600 + 30\% \text{ of } 4500 = ? \times 10 + 470 + 770 - 200$$

$$? \times 10 + 1240 - 200 = \frac{35 \times 1600}{100} + \frac{30 \times 4500}{100}$$

$$? \times 10 + 1240 - 200 = 560 + 1350$$

$$? \times 10 + 1040 = 1910$$

$$? \times 10 = 1910 - 1040 = 870$$

$$\therefore ? = \frac{870}{10} = 87$$

S12. Ans.(e)

$$\text{Sol. } (36 + ?) \times 9 - 7 \times ? = 50 \times 20 - 25 \times 14$$

$$\text{or, } 324 + 2 \times ? = 50 \times 20 - 25 \times 14$$

$$\text{or, } 2 \times ? = 1000 - 350 - 324 = 326$$

$$\therefore ? = \frac{326}{2} = 163$$

S13. Ans.(c)

$$\text{Sol. } \frac{? \times (5000)}{100} = \frac{26}{5} \times 195 + \frac{50}{8} \times 2300 + 21 - 730 - 14430$$

$$\text{or, } ? \times 50 = 1014 + 14375 + 21 - 730 - 14430$$

$$= 15410 - 15160 = 250$$

$$\therefore ? = \frac{250}{50} = 5$$

S14. Ans.(c)

$$\text{Sol. } (57)^2 = (74)^2 + (39)^2 - 3748$$

$$= 5476 + 1521 - 3748$$

$$= 6997 - 3748 = 3249 = (57)^2$$

$$\therefore ? = 2$$

S15. Ans.(b)

$$\text{Sol. } \frac{(37)^2 - (17)^2}{?} = 18$$

$$? = 60$$

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