

Course: SBI Clerk Mains

Subject: : Simplification

Time:12 Minutes

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**Directions (1-15):** दिए गये प्रश्नों में प्रश्न चिन्ह (?) के स्थान पर क्या मान आना चाहिए ?

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

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

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

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

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

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

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

- (a) 4000
- (b) 3500
- (c) 2000

(d) 2500

(e) 3000

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

(a) 2

(b) 3

(c) 8

(d) 5

(e) 9

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

(a) 11

(b) 5

(c) 20

(d) 10

(e) 12

L1Difficulty 3

QTags Simplification

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

(a) 720

(b) 504

(c) 360

(d) 704

(e) 840

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

(a) 16

(b) 18

(c) 22

(d) 10

(e) 28

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

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

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

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

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

- (a) 76
- (b) 80
- (c) 87
- (d) 90
- (e) 96

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

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

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

(a) 4

(b) 9

(c) 5

(d) 7

(e) 6

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

(a) 4

(b) 3

(c) 2

(d) 5

(e) 6

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

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

(a) 50

(b) 60

(c) 70

(d) 80

(e) 48

L1Difficulty 3

QTags Simplification

QCreator Amit Kumar Singh

## 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)

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

$$? = 60$$