

## Approximation Questions for SBI PO Exam

**Directions (1-5):** What approximate value will come in place of question mark (?) in the following questions (You are not expected to calculate the exact value).

**Q1.**  $14.98 \times 24.88\% \text{ of } 140.02 = ? \times 15$

- (a) 45
- (b) 25
- (c) 50
- (d) 35
- (e) 65

**Q2.**  $1569.99 + 2190.012 - \frac{4}{9} \text{ of } 198.12 = \frac{?}{4}$

- (a) 12122
- (b) 14478
- (c) 18750
- (d) 10980
- (e) 14688

**Q3.**  $80.04\% \text{ of } 560.05 + 19.02^2 - \sqrt[3]{4913.21} = ?$

- (a) 702
- (b) 868
- (c) 912
- (d) 792
- (e) 446

**Q4.**  $44.04 \div 3.97 \times 8.99 \div 2.94 + 3.01 = \sqrt{?}$

- (a) 6
- (b) 36
- (c) 24
- (d) 1296
- (e) 216

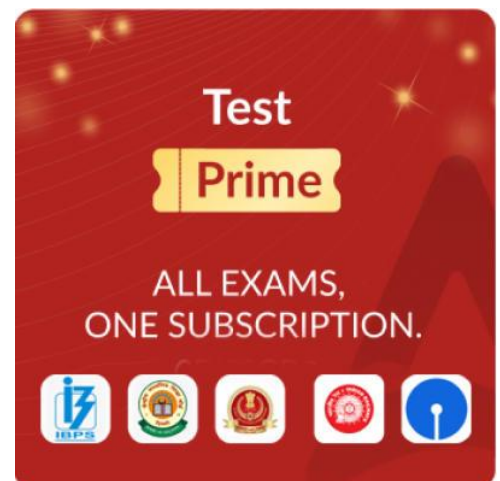
**Q5.**  $\sqrt{39.94\% \text{ of } 375.08 + 75.07\% \text{ of } 59.92} = ?$

- (a) 12
- (b) 14
- (c) 16
- (d) 18
- (e) 22

**Direction (6-10):** What approximate value should come in the place of question (?) mark.


**Q6.**  $15.98\% \text{ of } 25.05\% \text{ of } 599 + (6.97 \times 21.98) = ? \times 4.04$

- (a) 45
- (b) 37
- (c) 40
- (d) 52
- (e) 56



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**Q7.**  $115.987 - 20.01\% \text{ of } 239 = (?^2 + 103.98) \div 9.99$

- (a) 26
- (b) 29
- (c) 18
- (d) 24
- (e) 32

**Q8.**  $145.09\% \text{ of } 200.01 + \frac{620.92}{27.01} + \sqrt{7} - 3.99 = (18.07)^2$

- (a) 984
- (b) 324
- (c) 576
- (d) 225
- (e) 676

**Q9.**  $25.08\% \text{ of } 979.92 + \sqrt{899.99} - 24.93\% \text{ of } 215.9 = ?$

- (a) 217
- (b) 213
- (c) 228
- (d) 236
- (e) 221

**Q10.**  $249.97 \div 25.02 + 108.08 \div 35.98 - 6.01 = ?$

- (a) 2
- (b) 5
- (c) 10
- (d) 7
- (e) 4

**Directions (11-15):** What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

**Q11.**  $\sqrt{\sqrt{(99.99 + 104.99 \times 5)} = ? \div 8.989$

- (a) 55
- (b) 15
- (c) 25
- (d) 35
- (e) 45

**Q12.**  $35.99 \times 4.98 - 1199.99 \div 7.99 = ?$

- (a) 20
- (b) 50
- (c) 40
- (d) 30
- (e) 10

**Q13.**  $?^2 + 60\% \text{ of } 239.99 = 55\% \text{ of } 320.02 + 3.98$

- (a) 8
- (b) 6
- (c) 4
- (d) 16
- (e) 14

**Q14.**  $524.90 + 125.05 = ? \times 9.99$

- (a) 85
- (b) 75
- (c) 65
- (d) 55
- (e) 45

**Q15.**  $\sqrt{144.04} \times 15\% \text{ of } 120.09 = ? - 54.99 \times 3.03$

- (a) 401
- (b) 431
- (c) 341
- (d) 471
- (e) 381

**Direction (16-18):** What approximate value should come in the place of question (?) mark in following question.

**Q16.**  $(? \% \text{ of } 6400.01) \times (? \div 511.99) = (4.98)^3 + 2.99$

- (a) 44
- (b) 48
- (c) 45
- (d) 32
- (e) 37

**Q17.**  $24.07\% \text{ of } 1600.03 + (15.99\% \text{ of } 599.99) \div 31.99 = ?^2 - 12.94$

- (a) 20
- (b) 28
- (c) 26
- (d) 22
- (e) 24

**Q18.**  $(190.05 \times 47.89) \div (1368.01 \div 440.99) + 86.99\% \text{ of } 499.97 = ?^3$

- (a) 10
- (b) 12
- (c) 18
- (d) 15
- (e) 20

**Direction (19-23):** What approximate value should come in the place of question (?) mark in following questions.

**Q19.**  $? + \sqrt{1369.08} - \sqrt{2024.98} = \sqrt[3]{2196.98}$

- (a) 24
- (b) 28
- (c) 25
- (d) 21
- (e) 27

**Q20.**  $360.09 - 79.88\% \text{ of } 1199.99 = ? - 840.03$

- (a) 250
- (b) 240
- (c) 260
- (d) 220
- (e) 280

**Q21.**  $\sqrt{?} = (27.99)^2 - 1180.03 + (20.07)^2$

- (a) 64
- (b) 100
- (c) 16
- (d) 36
- (e) 144

**Q22.**  $(?)^2 + 24.98 \times 12.04 = 3999.94 \div 9.99$

- (a) 10
- (b) 14
- (c) 11
- (d) 16
- (e) 8

**Q23.**  $(47.98 \times 6.09) - (\sqrt{121.02} \times 5.07) = ?$

- (a) 283
- (b) 213
- (c) 233
- (d) 263
- (e) 193

**Directions (24-28):** What approximate value should come in place of question (?) mark.

**Q24.**  $144.89\% \text{ of } 79.99 + \sqrt{676.06} + ?^2 = 2100.91 \div 10.89$

- (a) 23
- (b) 7
- (c) 13
- (d) 17
- (e) 9

Q25.  $\frac{16.13+3.97 \times ?}{3.02} + 7.90^3 \div 2.09^2 = 156.089 \times 1.99$

- (a) 159
- (b) 129
- (c) 134
- (d) 144
- (e) 152

Q26.  $5.12^3 \times 4.24^3 \div 2.12^5 + 74.95\% \text{ of } 360.09 = ?$

- (a) 520
- (b) 610
- (c) 540
- (d) 660
- (e) 500

Q27.  $9.09 \times 25.25 + 51.051 \times 9.01 - 9.09 \times 58.058 = ?$

- (a) 172
- (b) 282
- (c) 222
- (d) 162
- (e) 192

Q28.  $120.012\% \text{ of } 450.24 + 119.920 + 155.1 \div 5.1 = ?$

- (a) 611
- (b) 751
- (c) 691
- (d) 721
- (e) 911

**Directions (29-34):** What approximate value will come in place of question mark (?) in the following questions (You are not expected to calculate the exact value).

Q29.  $39.89\% \text{ of } 549.92 + 199.88 \div 4.02 = ?$

- (a) 470
- (b) 545
- (c) 260
- (d) 145
- (e) 270

Q30.  $\sqrt{1440} \times 11.01 + 490.02 = ? + 560.02$

- (a) 308
- (b) 332
- (c) 364
- (d) 348
- (e) 386

Q31.  $\frac{89.90\% \text{ of } 799.99}{8.82} = \sqrt[3]{?} \times 9.99$

- (a) 125
- (b) 512
- (c) 64
- (d) 216
- (e) 729

Q32.  $19.09^2 - 20.04\% \text{ of } 190.04 - ? = 90.12$

- (a) 233
- (b) 247
- (c) 212
- (d) 202
- (e) 285

Q33.  $(11.92\% \text{ of } 450.10) \div 8.90 + 3 \times ? = 1112.98 - 900.21$

- (a) 62
- (b) 61
- (c) 29
- (d) 74
- (e) 69s

Q34.  $1.99 \times 8.98 + 109.90 \div 10.03 = ? - 65.09\% \text{ of } 199.99$

- (a) 171
- (b) 159
- (c) 165
- (d) 179
- (e) 142

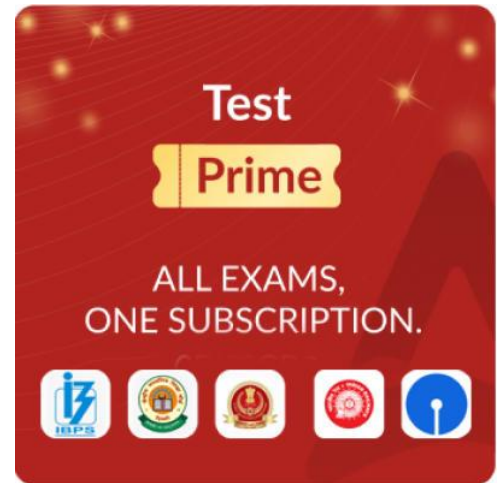
**Direction (35-39):** What approximate value should come in the place of question (?) mark in following questions:

Q35.  $56.08\% \text{ of } 549.98 + 251.98 = ?^2 - \sqrt{256.03}$

- (a) 28
- (b) 26
- (c) 22
- (d) 24
- (e) 20

Q36.  $\frac{112.03\% \text{ of } 699.99}{? \times 6.99} + 6.99^3 = 175.03 \times \sqrt{4.09}$

- (a) 16
- (b) 8
- (c) 24
- (d) 4
- (e) 32



Q37.  $\sqrt[3]{64.01} + 15.03\% \text{ of } 1279.99 = ?^2$

- (a) 16
- (b) 8
- (c) 10
- (d) 12
- (e) 14

Q38.  $\frac{240.01 + 24.99\% \text{ of } 719.99 + 280.03}{69.87} = \sqrt[3]{?}$

- (a) 64
- (b) 8
- (c) 1728
- (d) 1000
- (e) 343

Q39.  $32.01 \div 1.99^2 \times 127.99 = 2^?$

- (a) 11
- (b) 9
- (c) 8
- (d) 10
- (e) 12

Q40.  $\frac{455.93}{?} = 12.98 \times (1.99)^5 - 44.99\% \text{ of } 840.1$

- (a) 1
- (b) 29
- (c) 18
- (d) 38
- (e) 12

Q41.  $\sqrt{831.01 - \sqrt{2208.97}} = \sqrt{?} + \sqrt{529.09}$

- (a) 25
- (b) 36
- (c) 49
- (d) 16
- (e) 9

Q42.  $29.92\% \text{ of } 180.01 + (17.06)^2 = ?\% \text{ of } 8574.90$

- (a) 32
- (b) 46
- (c) 10
- (d) 4
- (e) 18

**Q43.**  $(32.02)^2 = (?)^3 - (14.89)^2 + 15.98\% \text{ of } 1600.20 + 13.02\% \text{ of } 4999.99$

- (a) 7
- (b) 15
- (c) 24
- (d) 52
- (e) 39

**Q44.**  $52.03 \times 17.89 - \sqrt{2303.98} = (29.99)^2 - 5\% \text{ of } 239.987$

- (a) 13
- (b) 2
- (c) 24
- (d) 45
- (e) 31

**Q45.**  $17.98\% \text{ of } 600.20 + 13.02\% \text{ of } 499.99 - 20.02\% \text{ of } 19.99 = ?^2$

- (a) 13
- (b) 26
- (c) 4
- (d) 34
- (e) 48

**Directions (46-50):** What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

**Q46.**  $55.67\% \text{ of } 450.02 + 59.78\% \text{ of } 290.09 = ? - 420.18 \div 3.03$

- (a) 566
- (b) 540
- (c) 654
- (d) 346
- (e) 864

**Q47.**  $\sqrt{(38.38 \div 2.45 + 52.99 + 56.34 \div 1.99)} = ?$

- (a) 19
- (b) 14
- (c) 23
- (d) 10
- (e) 4

**Q48.**  $\frac{1}{5.67} \text{ of } \frac{?}{3.89} \text{ of } \frac{48.23}{23.78} \times ? = 10$

- (a) 21
- (b) 18
- (c) 9
- (d) 14
- (e) 11



**Q49.**  $420.2 \div 10 \times 44.33 - 455.89 \div 8 \times 10 = ?$

- (a) 1078
- (b) 1208
- (c) 1278
- (d) 2270
- (e) 1008

**Q50.**  $(25.17^2 - 15.89^2) \times \frac{1}{19.88} + ? = 99.56$

- (a) 82
- (b) 89
- (c) 52
- (d) 71
- (e) 77

## Solution

**S1. Ans.(d)**

**Sol.**  $15 \times \frac{25}{100} \times 140 = ? \times 15$

$$\frac{525}{15} = ?$$

$$35 = ?$$

**S2. Ans.(e)**

**Sol.**  $1570 + 2190 - \frac{4}{9} \text{ of } 198 = \frac{?}{4}$

$$3760 - 88 = \frac{?}{4}$$

$$14688 = ?$$

**S3. Ans.(d)**

**Sol.**  $\frac{80}{100} \times 560 + 361 - \sqrt[3]{4913}$

$$448 + 361 - 17 = ?$$

$$792 = ?$$

**S4. Ans.(d)**

**Sol.**  $\frac{44}{4} \times \frac{9}{3} + 3 = \sqrt{?}$

$$\sqrt{?} = 11 \times 3 + 3$$

$$36 = \sqrt{?}$$

$$? = 1296$$

**S5. Ans.(b)**

**Sol.**  $\sqrt{40\% \times 375 + 75\% \times 60} = ?$

$$? = \sqrt{150 + 45}$$

$$? = \sqrt{195}$$

$$? = 14$$

**S6. Ans.(a)**

**Sol.**  $16\% \text{ of } 25\% \text{ of } 600 + (7 \times 22) = ? \times 4$

$$\frac{16}{100} \times \frac{25}{100} \times 600 + 154 = ? \times 4$$

$$24 + 154 = ? \times 4$$

$$? = 44.5 \approx 45$$

**S7. Ans.(d)**

**Sol.**  $116 - 20\% \text{ of } 240 = (?^2 + 104) \div 10$

$$116 - 48 = (?^2 + 104) \div 10$$

$$680 = ?^2 + 104$$

$$? = \sqrt{576}$$

$$? = 24$$

**S8. Ans.(d)**

**Sol.**  $\frac{145}{100} \times 200 + \frac{621}{27} - 4 + \sqrt{?} = 324$

$$290 + 23 - 4 + \sqrt{?} = 324$$

$$? = 225$$

**S9. Ans.(e)**

**Sol.**  $\frac{980}{4} + 30 - \frac{25}{100} \times 216 = ?$

$$? = 245 + 30 - 54$$

$$? = 221$$

**S10. Ans.(d)**

**Sol.**  $\frac{250}{25} + \frac{108}{36} - 6 = ?$

$$? = 10 + 3 - 6$$

$$? = 7$$

**S11. Ans.(e)**

**Sol.**  $\sqrt{\sqrt{(99.99 + 104.99 \times 5)} = ? \div 8.989$

$$\sqrt{\sqrt{100 + 105 \times 5}} = \frac{?}{9}$$

$$\sqrt{\sqrt{625}} = \frac{?}{9}$$

$$? = 45$$

**S12. Ans.(d)**

**Sol.**  $35.99 \times 4.98 - 1199.99 \div 7.99 = ?$

$$36 \times 5 - \frac{1200}{8} = ?$$

$$? = 180 - 150$$

$$? = 30$$

**S13. Ans.(b)**

**Sol.**  $?^2 + 60\%$  of 239.99 = 55% of 320.02 + 3.98

$$?^2 + \frac{60}{100} \times 240 = \frac{55}{100} \times 320 + 4$$

$$?^2 = 180 - 144$$

$$? = 6$$

**S14. Ans.(c)**

**Sol.**  $525 + 125 = ? \times 10$

$$? = \frac{650}{10}$$

$$? = 65$$

**S15. Ans.(e)**

**Sol.**  $\sqrt{144} \times \frac{15}{100} \times 120 = ? - 55 \times 3$

$$12 \times 18 = ? - 165$$

$$? = 216 + 165$$

$$? = 381$$

**S16. Ans.(d)**

**Sol.**  $\frac{?}{100} \times 6400 \times ? \times \frac{1}{512} \approx 125 + 3$

$$?^2 \times \frac{1}{8} \approx 128$$

$$?^2 \approx 1024$$

$$? \approx 32$$

**S17. Ans.(a)**

**Sol.**  $\frac{24}{100} \times 1600 + \left(\frac{16}{100} \times 600\right) \times \frac{1}{32} \approx ?^2 - 13$

$$384 + 3 + 13 \approx ?^2$$

$$?^2 \approx 400$$

$$? \approx 20$$

**S18. Ans.(d)**

**Sol.**  $(190 \times 48) \div \left(\frac{1368}{441}\right) + \frac{87}{100} \times 500 \approx ?^3$

$$190 \times 48 \times \frac{441}{1368} + 435 \approx (?)^3$$

$$2940 + 435 \approx (?)^3$$

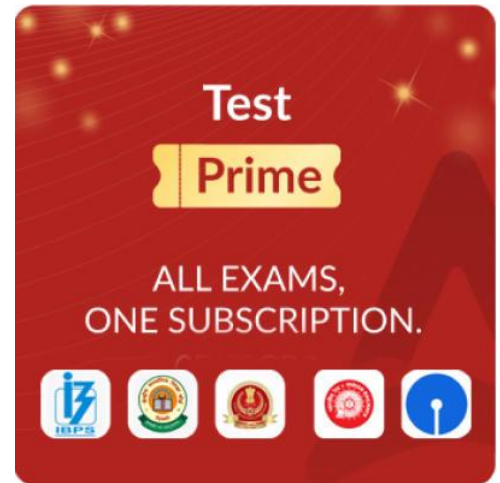
$$? \approx 15$$

**S19. Ans.(d)**

**Sol.**  $? + 37 - 45 \approx 13$


$$? \approx 13 + 8$$

$$? \approx 21$$



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**S20. Ans.(b)**

**Sol.**  $360 - \frac{80}{100} \times 1200 + 840 \approx ?$   
 $1200 - 960 \approx ?$   
 $? \approx 240$

**S21. Ans.(c)**

**Sol.**  $\sqrt{?} \approx 784 - 1180 + 400$   
 $\sqrt{?} \approx 4$   
 $? \approx 16$

**S22. Ans.(a)**

**Sol.**  $(?)^2 \approx 400 - 300$   
 $(?)^2 \approx 100$   
 $? \approx 10$

**S23. Ans.(c)**

**Sol.**  $288 - 55 \approx ?$   
 $? \approx 233$

**S24. Ans.(b)**

**Sol.**  $\frac{145}{100} \times 80 + \sqrt{676} + ?^2 = \frac{2101}{11}$   
 $116 + 26 + ?^2 = 191$   
 $?^2 = 49$   
 $? = 7$

**S25. Ans.(c)**

**Sol.**  $\frac{16+4 \times ?}{3} + \frac{512}{4} = 312$   
 $16 + 4 \times ? = 3 \times (312 - 128)$   
 $4 \times ? = 552 - 16$   
 $? = 134$

**S26. Ans.(a)**

**Sol.**  $125 \times \frac{64}{32} + \frac{75}{100} \times 360 = ?$   
 $? = 250 + 270$   
 $? = 520$

**S27. Ans.(d)**

**Sol.**  $9 \times (25 + 51 - 58) = ?$   
 $? = 9 \times 18$   
 $? = 162$

**S28. Ans.(c)**

**Sol.**  $\frac{120}{100} \times 450 + 120 + 31 = ?$   
 $540 + 120 + 31 = ?$   
 $? = 691$

**S29. Ans.(e)**

**Sol.**  $40\% \text{ of } 550 + 200 \div 4 = ?$

$$220 + 50 = ?$$

$$270 = ?$$

**S30. Ans.(d)**

**Sol.**  $\sqrt{1444} \times 11 + 490 = ? + 560$

$$418 + 490 - 560 = ?$$

$$348 = ?$$

**S31. Ans.(b)**

**Sol.**  $\frac{90\% \text{ of } 800}{9} = \sqrt[3]{?} \times 10$

$$\frac{80}{10} = \sqrt[3]{?}$$

$$8 = \sqrt[3]{?}$$

$$512 = ?$$

**S32. Ans.(a)**

**Sol.**  $19^2 - 20\% \text{ of } 190 - ? = 90$

$$361 - 38 - ? = 90$$

$$233 = ?$$

**S33. Ans.(e)**

**Sol.**  $(12\% \text{ of } 450) \div 9 + 3 \times ? = 1113 - 900$

$$6 + 3 \times ? = 213$$

$$3 \times ? = 207$$

$$? = 69$$

**S34. Ans.(b)**

**Sol.**  $2 \times 9 + 110 \div 10 = ? - 65\% \text{ of } 200$

$$18 + 11 = ? - 130$$

$$159 = ?$$

**S35. Ans.(d)**

**Sol.**  $\frac{56}{100} \times 550 + 252 = ?^2 - \sqrt{256}$

$$308 + 252 + 16 = ?^2$$

$$576 = ?^2$$

$$? = 24$$

**S36. Ans.(a)**

$$\text{Sol. } \frac{\frac{112}{100} \times 700}{? \times 7} + 343 = 175 \times 2$$

$$\frac{784}{? \times 7} = 350 - 343$$

$$\frac{784}{? \times 7} = 7$$

$$? = \frac{784}{49}$$

$$? = 16$$

**S37. Ans.(e)**

$$\text{Sol. } 4 + \frac{15}{100} \times 1280 = ?^2$$

$$4 + 192 = ?^2$$

$$? = 14$$

**S38. Ans.(d)**

$$\text{Sol. } \frac{240 + \frac{25}{100} \times 720 + 280}{70} = \sqrt[3]{?}$$

$$\frac{240 + 180 + 280}{70} = \sqrt[3]{?}$$

$$\frac{700}{70} = \sqrt[3]{?}$$

$$10 = \sqrt[3]{?}$$

$$? = 1000$$

**S39. Ans.(d)**

$$\text{Sol. } 2^5 \div 2^2 \times 2^7 = 2^?$$

$$2^{(5-2)} \times 2^7 = 2$$

$$2^{10} = 2^?$$

$$? = 10$$

**S40. Ans.(e)**

$$\text{Sol. } \frac{456}{?} = 13 \times 32 - \frac{45}{100} \times 840$$

$$\frac{456}{?} = 416 - 378$$

$$\frac{456}{?} = 38$$

$$? = 12$$

**S41. Ans.(a)**

$$\text{Sol. } \sqrt{831} - \sqrt{2209} = \sqrt{?} + \sqrt{529}$$

$$\sqrt{784} = \sqrt{?} + 23$$

$$? = 25$$

**S42. Ans.(d)**

$$\text{Sol. } \frac{30}{100} \times 180 + (17)^2 = \frac{?}{100} \times 8575$$

$$54 + 289 = \frac{?}{100} \times 8575$$

$$343 \times \frac{100}{8575} = ?$$

$$? = 4$$

**S43. Ans.(a)**

$$\text{Sol. } (32)^2 = (?)^3 - (15)^2 + \frac{16}{100} \times 1600 + \frac{13}{100} \times 5000$$

$$1024 = ?^3 - 225 + 256 + 650$$

$$?^3 = 343$$

$$? = 7$$

**S44. Ans.(b)**

$$\text{Sol. } 52 \times 18 - \sqrt{2304} = (30)^? - \frac{5}{100} \times 240$$

$$936 - 48 + 12 = (30)^?$$

$$900 = (30)^?$$

$$? = 2$$

**S45. Ans.(a)**

$$\text{Sol. } 18\% \text{ of } 600 + 13\% \text{ of } 500 - 20\% \text{ of } 20 = ?^2$$

$$108 + 65 - 4 = ?^2$$

$$169 = ?^2$$

$$13 = ?$$

**S46. Ans.(a)**

$$\text{Sol. } \frac{56}{100} \times 450 + \frac{60}{100} \times 290 + \frac{420}{3} = ?$$

$$252 + 174 + 140 = ?$$

$$? = 566$$

**S47. Ans.(d)**

$$\text{Sol. } \sqrt{(38 \div 2 + 53 + 56 \div 2)} = ?$$

$$\sqrt{(19 + 53 + 28)} = ?$$

$$? = \sqrt{100}$$

$$? = 10$$

**S48. Ans.(e)**

$$\text{Sol. } \frac{1}{6} \times \frac{?}{4} \text{ of } \frac{48}{24} \times ? = 10$$

$$?^2 = 10 \times 12$$

$$? = 11$$

**S49. Ans.(c)**

**Sol.**  $\frac{420}{10} \times 44 - \frac{456}{8} \times 10 = ?$

$1848 - 570 = ?$


$? = 1278$

**S50. Ans.(a)**

**Sol.**  $(625 - 256) \times \frac{1}{20} + ? = 100$

$18.45 + ? = 100$

$? = 81.55 \approx 82$



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