

Simplification Questions for Bank Exams

Directions (1-10): What will come in place of question (?) mark in the following questions.

Q1. $725 \div \sqrt{625} + \frac{2}{5} \times 600 = ?$

- (a) 269
- (b) 254
- (c) 256
- (d) 289
- (e) 220

Q2. $[12 \times (1.9 + 2.1)] - 12 = ?^2$

- (a) 7
- (b) 3
- (c) 6
- (d) 5
- (e) 4

Q3. $(2343 \div 11) + (126 \div 3) = ?$

- (a) 250
- (b) 225
- (c) 248
- (d) 255
- (e) 260

Q4. $14\frac{2}{7}\% \text{ of } 350 - \frac{2}{3} \times ? = 30$

- (a) 15
- (b) 30
- (c) 60
- (d) 75
- (e) 24

Q5. $\frac{42 \times 12}{36 \times 7} + \sqrt{121} = ?$

- (a) 13
- (b) 12
- (c) 15
- (d) 14
- (e) 16

Q6. $16\frac{2}{3}\% \text{ of } 684 \div 11\frac{1}{9}\% \text{ of } 171 = ?$

- (a) 5
- (b) 8
- (c) 6
- (d) 9
- (e) 7

Q7. $360 \div 15 \text{ of } (4 \times 2) + \sqrt{7} = 26$

- (a) 484
- (b) 529
- (c) 169
- (d) 625
- (e) 441

Q8. $25^2 - ?^2\% \text{ of } 125 = 20$

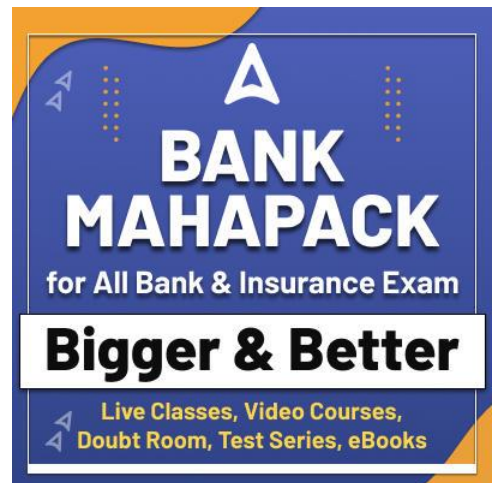
- (a) 22
- (b) 18
- (c) 24
- (d) 26
- (e) 20

Q9. $\frac{0.16 \times 1.25}{0.08} + \frac{0.015 \times 150}{0.9} = ?$

- (a) 3.5
- (b) 3
- (c) 2
- (d) 5
- (e) 4.5

Q10. $\frac{15}{18} \text{ of } 378 \div \frac{15}{2} = ? - 8$

- (a) 42
- (b) 52
- (c) 36
- (d) 34
- (e) 50



Directions (11-20): What should come in place of question mark (?) in the following questions?

Q11. $\sqrt{12.25} \times 18 - (?)^2 = (6)^2 + \sqrt{4}$

- (a) 7
- (b) 6
- (c) 5
- (d) 4
- (e) 3

Q12. $(1250 + 1725) \div (825 + 365) = ?$

- (a) 1.5
- (b) 2.5
- (c) 1
- (d) 2.25
- (e) 2.75

Q13. $\sqrt{625} \div \sqrt{16} \times 6 = ?\%$ of 300

- (a) 15
- (b) 12.5
- (c) 17.5
- (d) 10
- (e) 8.5

Q14. $26 \times 15 + 310 - (15)^2 = 25\%$ of ?

- (a) 1600
- (b) 1800
- (c) 1900
- (d) 1500
- (e) 1700

Q15. $\sqrt{81} \times \sqrt{625} + 1225 = (?)^2 - 150$

- (a) 50
- (b) 45
- (c) 35
- (d) 30
- (e) 40

Q16. $512 + \sqrt{676} + \frac{9}{17} \times 4250 + ? = (53)^2$

- (a) 21
- (b) -21
- (c) 25
- (d) -31
- (e) -33

Q17. $150 \div 3 \times 15 - 225 \div 9 \times 12 = 900\%$ of ?

- (a) 40
- (b) 45
- (c) 55
- (d) 50
- (e) 100

Q18. 40% of 1125 + $\frac{2286}{6} = 33\frac{1}{3}\%$ of 1110 + ?

- (a) 461
- (b) 523
- (c) 451
- (d) 444
- (e) 425

Q19. $15 \div 2.5 + 133 - 157 + \sqrt{256} + (10)^2 = \frac{1176}{?}$

- (a) 9
- (b) 8.5
- (c) 6.5
- (d) 8
- (e) 12

Q20. $(2500 + 170 - \sqrt{4900}) \div 25 + ? = (12)^2$

- (a) 50
- (b) 56
- (c) 40
- (d) 44
- (e) 39

Directions (21-30): What should come in place of question (?) mark in the following questions?

Q21. 30% of 450 + 75% of 680 = $?\%$ of 1075

- (a) 40
- (b) 55
- (c) 45
- (d) 60
- (e) 70

Q22. $? + \frac{5}{7} + \frac{2}{5} - \frac{3}{4} = 2\frac{2}{7} + 5\frac{1}{4} + 3\frac{2}{5}$

- (a) $11\frac{4}{7}$
- (b) $10\frac{2}{7}$
- (c) $11\frac{2}{7}$
- (d) $9\frac{4}{7}$
- (e) $10\frac{4}{7}$

Q23. $\sqrt{524 + 125 \times 3 - 778} = (?)^2$

- (a) 121
- (b) 11
- (c) $\sqrt{11}$
- (d) 1.1
- (e) 9

Q24. $(3)^{\frac{1}{2}+?} = (3\sqrt{3}) \times (9\sqrt{27}) \times (\sqrt{243})$

- (a) 6.5
- (b) 7
- (c) 6
- (d) 5.5
- (e) 5

Q25. $74 \times 2.5 + 13 \times 5 = ?$

- (a) 250
- (b) 240
- (c) 230
- (d) 260
- (e) 270

Q26. $\frac{(4)^3 + (18)^2}{7^2 + 121 - 73} = ?$

- (a) 1
- (b) 2
- (c) 4
- (d) 5
- (e) 3

Q27. $2\frac{4}{11} \times 1\frac{5}{13} \times 2\frac{2}{9} = \frac{1}{22} \times ?$

- (a) 240
- (b) 320
- (c) 40
- (d) 80
- (e) 160

Q28. $(12\% \text{ of } 750) - (12.5\% \text{ of } 480) + ? = 140$

- (a) 105
- (b) 120
- (c) 110
- (d) 100
- (e) 90

Q29. $40\% \text{ of } 260 + 80 = 50\% \text{ of } ?$

- (a) 366
- (b) 372
- (c) 368
- (d) 364
- (e) 362

Q30. $115 \times 8 + ? = 20\% \text{ of } 6000$

- (a) 280
- (b) 180
- (c) 200
- (d) 300
- (e) 380

Direction (31-40): Simplify the following questions and find what will come in place of question(?) mark.

Q31. $? \times \frac{1}{7} \text{ of } 29841 \div 29 - \sqrt{2209} = \frac{1}{13} \text{ of } 7033$

- (a) 6
- (b) 4
- (c) 8
- (d) 5
- (e) 3

Q32. $124\sqrt{7} + 876 = \frac{3}{4} \text{ of } 840 + 742$

- (a) 4
- (b) 16
- (c) 8
- (d) 64
- (e) 25

Q33. $\sqrt[3]{1331} \times 343 \div 49 - 28 = ?$

- (a) 55
- (b) 49
- (c) 62
- (d) 42
- (e) 39

Q34. $475 + 64\% \text{ of } 950 = 900 + ?$

- (a) 183
- (b) 233
- (c) 198
- (d) 186
- (e) 253

Q35. 56% of 700 + 64% of 900 - 40% of 290 = ?

- (a) 848
- (b) 852
- (c) 860
- (d) 874
- (e) 846

Q36. $(9)^3 + ?^2 \times 25 = 1129$

- (a) 2
- (b) 4
- (c) 3
- (d) 5
- (e) 7

Q37. $3\frac{1}{7} + 2\frac{1}{21} - ? = 2$

- (a) $5\frac{1}{21}$
- (b) $7\frac{3}{28}$
- (c) $6\frac{4}{21}$
- (d) $4\frac{5}{21}$
- (e) $3\frac{4}{21}$

Q38. $?%$ of 125 + $(15)^2 = (16)^2 - 2.5%$ of 640

- (a) 6
- (b) 8
- (c) 10
- (d) 12
- (e) 4

Q39. $(12)^3 + 24%$ of ? = 1830

- (a) 400
- (b) 415
- (c) 425
- (d) 405
- (e) 400

Q40. $7.8 + 50%$ of 64.4 = $(7)^2 - ?^2$

- (a) 3
- (b) 2
- (c) 1
- (d) 6
- (e) 7

Directions (41-50): What value should come in place of (?) in the following questions?

Q41. $4900 \div 28 \times 444 \div 12 - 6450 = (?)^2$

- (a) 6
- (b) 7
- (c) 5
- (d) 4
- (e) 8

Q42. $38%$ of 250 - $85%$ of 560 + $13 \times ? = 61$

- (a) 34
- (b) 26
- (c) 12
- (d) 28
- (e) 32

Q43. $2\frac{1}{9} \times 1\frac{2}{19} \div 2\frac{1}{3} - \frac{1}{2} = ? - 1\frac{1}{2}$

- (a) $\frac{5}{2}$
- (b) 4
- (c) $\frac{3}{2}$
- (d) $\frac{1}{2}$
- (e) 2

Q44. $\sqrt{?} \times 12 - 26%$ of 1650 + 19 = 13×34

- (a) 4900
- (b) 5041
- (c) 5329
- (d) 5476
- (e) 5625

Q45. $575 \times 24 \div 8 - (5)^3 = (?)^2$

- (a) 40
- (b) 45
- (c) 50
- (d) 55
- (e) 35

Q46. $\frac{600 \div 24 \times 1.8}{176 \div 8 + 0.5} \times 4 = ?$

- (a) 8
- (b) 12
- (c) 16
- (d) 4
- (e) 1

Q47. $125\% \text{ of } 80 + 350\% \text{ of } 18 + 6 = ?^2$

- (a) 17
- (b) 12
- (c) 13
- (d) 15
- (e) 11

Q48. $\sqrt{24\% \text{ of } 225 + 10} = ? + \sqrt{121}$

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

Q49. $\frac{10^2 + 64^2 \div (2)^5}{11^2 + 9^2 - 29 \times 5} = ?$

- (a) 7
- (b) 4
- (c) 2
- (d) 8
- (e) 10

Q50. $8\frac{4}{7} \times 16\frac{2}{6} - 2 \times ? = 324 \div 9 \div 2$

- (a) 122
- (b) 63
- (c) 73
- (d) 61
- (e) 71

Directions (51-60): What will come in place of question (?) mark in the following questions.

Q51. $725 \div \sqrt{625} + \frac{2}{5} \times 600 = ?$

- (a) 269
- (b) 254
- (c) 256
- (d) 289
- (e) 220

Q52. $[12 \times (1.9 + 2.1)] - 12 = ?^2$

- (a) 7
- (b) 3
- (c) 6
- (d) 5
- (e) 4

Q53. $(2343 \div 11) + (126 \div 3) = ?$

- (a) 250
- (b) 225
- (c) 248
- (d) 255
- (e) 260

Q54. $14\frac{2}{7}\% \text{ of } 350 - \frac{2}{3} \times ? = 30$

- (a) 15
- (b) 30
- (c) 60
- (d) 75
- (e) 24

Q55. $\frac{42 \times 12}{36 \times 7} + \sqrt{121} = ?$

- (a) 13
- (b) 12
- (c) 15
- (d) 14
- (e) 16

Q56. $16\frac{2}{3}\% \text{ of } 684 \div 11\frac{1}{9}\% \text{ of } 171 = ?$

- (a) 5
- (b) 8
- (c) 6
- (d) 9
- (e) 7

Q57. $360 \div 15 \text{ of } (4 \times 2) + \sqrt{?} = 26$

- (a) 484
- (b) 529
- (c) 169
- (d) 625
- (e) 441

Q58. $25^2 - ?^2\% \text{ of } 125 = 20$

- (a) 22
- (b) 18
- (c) 24
- (d) 26
- (e) 20

Q59. $\frac{0.16 \times 1.25}{0.08} + \frac{0.015 \times 150}{0.9} = ?$

- (a) 3.5
- (b) 3
- (c) 2
- (d) 5
- (e) 4.5

Q60. $\frac{15}{18}$ of $378 \div \frac{15}{2} = ? - 8$

- (a) 42
- (b) 52
- (c) 36
- (d) 34
- (e) 50

Directions (61-65):- What will come in place of question mark (?) in the following questions

Q61. $\sqrt{841} + \sqrt{1296} - \sqrt{1024} = \sqrt{?}$

- (a) 1156
- (b) 1089
- (c) 1024
- (d) 961
- (e) 1225

Q62. $14400 \div 36 + 15600 \div 12 + 450 = 1800 + ?$

- (a) 410
- (b) 330
- (c) 390
- (d) 350
- (e) 370

Q63. $7450 + 5880 - 6890 = 9000 - ?$

- (a) 2560
- (b) 2760
- (c) 2460
- (d) 2850
- (e) 2480

Q64. $32 \times 25 + 44 \times 18 + 348 \div 6 = ?$

- (a) 1550
- (b) 1620
- (c) 1650
- (d) 1600
- (e) 1690

Q65. $\sqrt{1225} \times 28 + 203 \times 7 = (?)^2$

- (a) 47
- (b) 45
- (c) 49
- (d) 51
- (e) 53

Directions (66-70): Simplify the following equations and find the value of (?) question mark?

Q66. $132\% \text{ of } 55 + \frac{685}{12} \% \text{ of } 48 = ?^2$

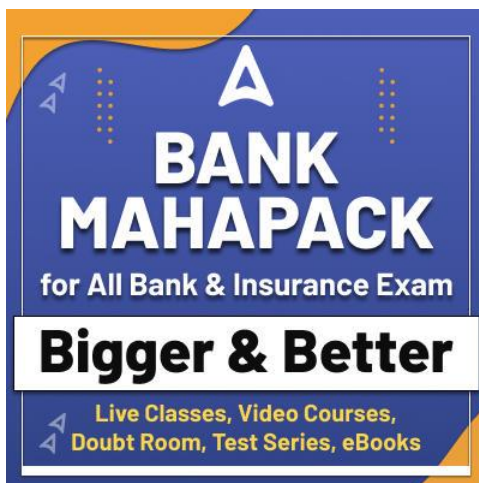
- (a) 11
- (b) 5
- (c) 8
- (d) 10
- (e) 12

Q67. $52703 + 41297 - 58000 = 100 \times ?$

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

Q68. $13.2 \div \frac{1}{6} \div 4.4 - 27.5 \div 13.75 = ?$

- (a) 16
- (b) 18
- (c) 12
- (d) 10
- (e) 8



Q69. $2744 \div 28 \div 14 + 42 = 7^?$

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

Q70. $264 \div 24 + 190 \div 5 = ? \div 5$

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

Direction (71-75): Find out the value of question mark (?) in the given questions.

Q71. 12.50% of 1440 - $17 \times 51 + 721 = ?$

- (a) 30
- (b) 31
- (c) 32
- (d) 33
- (e) 34

Q72. $\sqrt{4096} + \frac{4}{5}$ of 780 - $? = 296$

- (a) 356
- (b) 360
- (c) 376
- (d) 392
- (e) 420

Q73. $17^2 + 896 + 12^2 - 25\%$ of 1100 = ?

- (a) 1000
- (b) 1050
- (c) 1054
- (d) 1058
- (e) 1060

Q74. $\frac{3}{7}$ of 686 + $133\frac{1}{3}\%$ of 33 - 69 = ?

- (a) 269
- (b) 239
- (c) 249
- (d) 259
- (e) 289

Q75. $(33 + 6.25\%$ of 4096) = $? + 2 \times 119$

- (a) 41
- (b) 51
- (c) 61
- (d) 31
- (e) 81

Directions (76-80): What should come in place of question mark (?) in the following questions?

Q76. $?^2 = 512 \div 81 \div 72 \times 2916$

- (a) 9
- (b) 12
- (c) 16
- (d) 18
- (e) 20

Q77. $\frac{9}{2} + \frac{11}{3} + \frac{17}{6} = ? + \frac{12}{5} + \frac{21}{10}$

- (a) 6
- (b) $6\frac{1}{2}$
- (c) 7
- (d) $6\frac{2}{3}$
- (e) $7\frac{1}{2}$

Q78. $5^{7-2} = (5)^5 \div (25)^3 \times (125)^2 \div 625$

- (a) -1
- (b) 0
- (c) 1
- (d) 2
- (e) 3

Q79. $? \times 65 \div 72 = 195 \times 352 \div 192$

- (a) 369
- (b) 396
- (c) 594
- (d) 297
- (e) 376

Q80. $\sqrt[2]{256} \times (1728)^{\frac{1}{3}} = ? \times (4096)^{\frac{1}{4}}$

- (a) 16
- (b) 18
- (c) 24
- (d) 28
- (e) 32

Directions (81-90): What will come in place of (?) in the following questions?

Q81. (?)% of 350 - (19)² + 28 × 45 = 1032

- (a) 48
- (b) 38
- (c) 26
- (d) 44
- (e) 56

Q82. (?)² - 31 × 7 = √1521 + 12 × 35

- (a) 26
- (b) 38
- (c) 21
- (d) 24
- (e) 18

Q83. 46% of 1500 + 36% of 750 = ? + 28 × 15

- (a) 570
- (b) 500
- (c) 450
- (d) 540
- (e) 640

Q84. ? × 13 = 26 ⁵/₆ × 6 ¹⁸/₂₃

- (a) 20
- (b) 18
- (c) 21
- (d) 14
- (e) 15

Q85. (? + 26)% of 1200 + 375 ÷ 75 × 4 = 500

- (a) 18
- (b) 12
- (c) 14
- (d) 16
- (e) 10

Q86. ⁶⁴⁰/_? = ((15)³ - 225 × 12) ÷ 33.75

- (a) 18
- (b) 40
- (c) 45
- (d) 32
- (e) 26

Q87. ?² + 224 - 96 = 85% of 280 + 34

- (a) 18
- (b) 12
- (c) 16
- (d) 14
- (e) 8

Q88. √1521 + (21)² - 18 × 5 = 5 × ?

- (a) 80
- (b) 78
- (c) 64
- (d) 70
- (e) 96

Q89. 48% of 800 + 125% of 1200 - 120 = (?)²

- (a) 42
- (b) 58
- (c) 36
- (d) 40
- (e) 50

Q90. ?% of 700 + 18 = 751 + 332 + 83

- (a) 172
- (b) 164
- (c) 128
- (d) 142
- (e) 198

Directions (91-100):- What will come in place of question mark (?) in the following questions

Q91. 2 ³/₅ + 3 ²/₃ - 1 ¹/₂ = ? + 1 ²³/₃₀

- (a) 2
- (b) 4
- (c) 3
- (d) 1
- (e) 0

Q92. 15 ÷ 5 × 4 - 2 = ? - 9

- (a) 23
- (b) 19
- (c) 17
- (d) 15
- (e) 20

Q93. $2^3 \times 4^6 \div 8^2 = (2)^{?-2}$

- (a) 7
- (b) 6
- (c) 9
- (d) 11
- (e) 8

Q94. $\frac{\sqrt{1521}}{\sqrt{169}} \times \frac{\sqrt{1444}}{\sqrt{361}} \times (10)^2 = \sqrt{100} \times ?$

- (a) 40
- (b) 80
- (c) 70
- (d) 50
- (e) 60

Q95. $15\% \text{ of } 250 + 35\% \text{ of } 750 - 75 = (?)^2$

- (a) 15
- (b) 16
- (c) 18
- (d) 10
- (e) 20

Q96. $80\% \text{ of } ? = \sqrt{250 \times 44 + 40\% \text{ of } 8500}$

- (a) 80
- (b) 120
- (c) 150
- (d) 180
- (e) 240

Q97. $? \times 40 \div 24 \times 27 = \frac{594}{115} \times \frac{2300}{264}$

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

Q98. $20\% \text{ of } (40 \times \sqrt{?}) = (32)^2 + (16)^2$

- (a) 160
- (b) 2560
- (c) 16
- (d) 25600
- (e) 256

Q99. $? + 13 \times 50 = 420 + 45\% \text{ of } 800 + 220$

- (a) 300
- (b) 350
- (c) 400
- (d) 450
- (e) 250

Q100. $(?)^{\frac{3}{2}} = 256 \times (2)^8 \div (8)^5 \times 32$

- (a) 4
- (b) 256
- (c) 64
- (d) 1024
- (e) 16

Solutions

S1. Ans.(a)

Sol. $= \frac{725}{25} + 240$
 $= 29 + 240$
 $= 269$

S2. Ans.(c)

Sol. $12 \times 4 - 12 = ?^2$
 $? = 6$

S3. Ans.(d)

Sol. $\frac{2343}{11} + \frac{126}{3} = ?$
 $213 + 42 = ?$
 $? = 255$

S4. Ans.(b)

Sol. $\frac{1}{7} \times 350 - \frac{2}{3} \times ? = 30$
 $50 - 30 = \frac{2}{3} \times ?$
 $? = 30$

S5. Ans.(a)

Sol. $\frac{42 \times 12}{36 \times 7} + 11 = ?$
 $? = 13$

S6. Ans.(c)

Sol. $\frac{50}{300} \times 684 \div \left(\frac{100}{900} \times 171\right) = ?$
 $114 \times \frac{1}{19} = ?$
 $? = 6$

S7. Ans.(b)

Sol. $360 \div 120 + \sqrt{?} = 26$
 $\sqrt{?} = 26 - 3$
 $\sqrt{?} = 23$
 $? = 529$

S8. Ans.(a)

Sol. $?^2 \% \text{ of } 125 = 625 - 20$
 $?^2 = \frac{605 \times 100}{125}$
 $?^2 = 121 \times 4$
 $?^2 = 11 \times 11 \times 2 \times 2$
 $? = 11 \times 2 = 22$

S9. Ans.(d)

Sol. $2 \times 1.25 + \frac{15 \times 150}{900} = ?$
 $2.5 + 2.5 = ?$
 $? = 5$

S10. Ans.(e)

Sol. $15 \times 21 \times \frac{2}{15} = ? - 8$
 $? = 42 + 8$
 $? = 50$

S11. Ans.(c)

Sol. $3.5 \times 18 - (?)^2 = 36 + 2$
 $63 - 38 = (?)^2$
 $25 = (?)^2$
 $? = 5$

S12. Ans.(b)

Sol. $? = \frac{2975}{1190}$
 $? = 2.5$

S13. Ans.(b)

Sol. $\frac{25 \div 4 \times 6}{3} = ?$
 $? = 12.5$

S14. Ans.(c)

Sol. $(390 + 310 - 225) \times 4 = ?$
 $(700 - 225) \times 4 = ?$
 $475 \times 4 = ?$
 $? = 1900$

S15. Ans.(e)

Sol. $9 \times 25 + 1225 + 150 = (?)^2$
 $225 + 1225 + 150 = (?)^2$
 $? = \sqrt{1600}$
 $? = 40$

S16. Ans.(a)

Sol. $512 + 26 + 9 \times 250 + ? = 2809$
 $? = 2809 - 512 - 26 - 2250$
 $? = 2809 - 2788$
 $? = 21$

S17. Ans.(d)

Sol. $\frac{150}{3} \times 15 - \frac{225}{9} \times 12 = \frac{900}{100} \times ?$
 $750 - 300 = 9 \times ?$
 $? = \frac{450}{9}$
 $? = 50$

S18. Ans.(a)

Sol. $\frac{40}{100} \times 1125 + 381 = \frac{1}{3} \times 1110 + ?$
 $450 + 381 = 370 + ?$
 $? = 461$

S19. Ans.(e)

Sol. $6 - 24 + 16 + 100 = \frac{1176}{?}$
 $98 = \frac{1176}{?}$
 $? = \frac{1176}{98}$
 $? = 12$

S20. Ans.(c)

Sol. $\frac{2500+170-70}{25} + ? = 144$

$? = 144 - \frac{2600}{25}$

$? = 144 - 104$

$? = 40$

S21. Ans.(d)

Sol. $\frac{30}{100} \times 450 + \frac{75}{100} \times 680 = \frac{?}{100} \times 1075$

$135 + 510 = ? \times \frac{43}{4}$

$\frac{645 \times 4}{43} = ?$

$? = 60$

S22. Ans.(e)

Sol. $? = 2 + \frac{2}{7} + 5 + \frac{1}{4} + 3 + \frac{2}{5} - \frac{5}{7} - \frac{2}{5} + \frac{3}{4}$

$= 10 + \frac{2}{7} - \frac{5}{7} + \frac{1}{4} + \frac{3}{4}$

$= 10 + \frac{4}{4} + \frac{2-5}{7}$

$= 11 - \frac{3}{7}$

$= 10\frac{4}{7}$

S23. Ans.(c)

Sol. $\sqrt{524 + 375 - 778} = (?)^2$

$\sqrt{121} = (?)^2$

$11 = (?)^2$

$? = \pm\sqrt{11}$

S24. Ans.(b)

Sol. $(3)^{\frac{1}{2}+?} = (3\sqrt{3}) \times (9\sqrt{27}) \times (\sqrt{243})$

$(3)^{\frac{1}{2}+?} = 3\sqrt{3} \times 3^2 \times 3\sqrt{3} \times 3^2\sqrt{3} = 3^6 \times 3\sqrt{3} =$

$3^7 \times \sqrt{3} = 3^{7+\frac{1}{2}}$

$\Rightarrow ? = 7$

S25. Ans.(a)

Sol. $74 \times 2.5 + 13 \times 5 = ?$

$2.5 [74 + 13 \times 2] = ?$

$2.5 [74 + 26] = ?$

$? = 250$

S26. Ans.(c)

Sol. $\frac{64+324}{97} = ?$

$? = 4$

S27. Ans.(e)

Sol. $\frac{26}{11} \times \frac{18}{13} \times \frac{20}{9} = \frac{1}{22} \times ?$

$? = 160$

S28. Ans.(c)

Sol. $90 - 60 + ? = 140$

$? = 110$

S29. Ans.(c)

Sol. $(104 + 80) \times 2 = ?$

$? = 368$

S30. Ans.(a)

Sol. $? = 1200 - 920$

$? = 280$

S31. Ans.(b)

Sol. $? \times 4263 \div 29 - 47 = \frac{1}{13} \times 7033$

$\Rightarrow 147 \times ? = 588$

$\Rightarrow ? = 4$

S32. Ans.(b)

Sol. $124\sqrt{?} + 876 = \frac{3}{4}$ of $840 + 742$

or $124\sqrt{?} + 876 = 630 + 742$

or $124\sqrt{?} = 1372 - 876$

or, $\sqrt{?} = \frac{496}{124} = 4$

$\therefore ? = 4^2 = 16$

S33. Ans.(b)

Sol. $? = 11 \times 343 \div 49 - 28$

$? = 49$

S34. Ans.(a)

Sol. $475 + 64\%$ of $950 - 900$

$= 475 + 608 - 900$

$= 183$

S35. Ans.(b)

Sol. $? = 56 \times 7 + 64 \times 9 - 4 \times 29$
 $= 852$

S36. Ans.(b)

Sol. $729 + ?^2 \times 25 = 1129$
 $?^2 \times 25 = 1129 - 729$
 $?^2 \times 25 = 400$
 $?^2 = \frac{400}{25}$
 $?^2 = 16$
 $? = 4$

S37. Ans.(e)

Sol. $\frac{22}{7} + \frac{43}{21} - ? = 2$
 $? = \frac{109}{21} - 2$
 $? = \frac{109-42}{21}$
 $? = \frac{67}{21}$
 $? = 3\frac{4}{21}$

S38. Ans.(d)

Sol. $? \% \text{ of } 125 + 225 = 256 - \frac{2.5}{100} \times 640$
 $\frac{?}{100} \times 125 = 256 - 16 - 225$
 $\frac{?}{100} \times 125 = 15$
 $? = \frac{15 \times 100}{125}$
 $? = 12$

S39. Ans.(c)

Sol. $1728 + \frac{24}{100} \times ? = 1830$
 $\frac{24}{100} \times ? = 1830 - 1728$
 $? = \frac{102 \times 100}{24}$
 $? = 425$

S40. Ans.(a)

Sol. $7.8 + \frac{50}{100} \times 64.4 = 49 - ?^2$
 $7.8 + 32.2 = 49 - ?^2$
 $?^2 = 49 - 40$
 $?^2 = 9$
 $? = 3$

S41. Ans.(c)

Sol. $4900 \times \frac{1}{28} \times 444 \times \frac{1}{12} - 6450 = (?)^2$
 $\Rightarrow 6475 - 6450 = (?)^2$
 $\Rightarrow \sqrt{25} = ?$
 $\Rightarrow ? = 5$

S42. Ans.(a)

Sol. $\frac{38}{100} \times 250 - \frac{85}{100} \times 560 + 13 \times ? = 61$
 $\Rightarrow 95 - 476 + 13 \times ? = 61$
 $\Rightarrow 13 \times ? = 61 + 381$
 $\Rightarrow ? = 34$

S43. Ans.(e)

Sol. $\frac{19}{9} \times \frac{21}{19} \times \frac{3}{7} - \frac{1}{2} = ? - \frac{3}{2}$
 $1 - \frac{1}{2} = ? - \frac{3}{2}$
 $? = 2$

S44. Ans.(b)

Sol. $12\sqrt{?} - \frac{26}{100} \times 1650 + 19 = 13 \times 34$
 $12\sqrt{?} - 429 + 19 = 442$
 $12\sqrt{?} = 871 - 19$
 $\sqrt{?} = \frac{852}{12} = 71$
 $? = 5041$

S45. Ans.(a)

Sol. $575 \times \frac{24}{8} - 125 = (?)^2$
 $1725 - 125 = (?)^2$
 $1600 = (?)^2$
 $? = 40$

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S46. Ans.(a)

$$\text{Sol. } \frac{25 \times 1.8}{22 + 0.5} \times 4 = ?$$

$$\frac{45}{22.5} \times 4 = ?$$

$$8 = ?$$

S47. Ans.(c)

$$\text{Sol. } \frac{80 \times 125}{100} + \frac{350}{100} \times 18 + 6 = ?^2$$

$$100 + 63 + 6 = ?^2$$

$$\sqrt{169} = ?$$

$$? = 13$$

S48. Ans.(e)

$$\text{Sol. } \sqrt{\frac{24}{100} \times 225 + 10} = ? + 11$$

$$8 = ? + 11$$

$$? = -3$$

S49. Ans.(b)

$$\text{Sol. } \frac{100 + \frac{64 \times 64}{32}}{121 + 81 - 145} = ?$$

$$? = \frac{228}{57}$$

$$? = 4$$

S50. Ans.(d)

$$\text{Sol. } \frac{60}{7} \times \frac{98}{6} - 2 \times ? = 324 \times \frac{1}{9} \times \frac{1}{2}$$

$$2 \times ? = 140 - 18$$

$$? = \frac{122}{2}$$

$$? = 61$$

S51. Ans.(a)

$$\text{Sol. } = \frac{725}{25} + 240$$

$$= 29 + 240$$

$$= 269$$

S52. Ans.(c)

$$\text{Sol. } 12 \times 4 - 12 = ?^2$$

$$? = 6$$

S53. Ans.(d)

$$\text{Sol. } \frac{2343}{11} + \frac{126}{3} = ?$$

$$213 + 42 = ?$$

$$? = 255$$

S54. Ans.(b)

$$\text{Sol. } \frac{1}{7} \times 350 - \frac{2}{3} \times ? = 30$$

$$50 - 30 = \frac{2}{3} \times ?$$

$$? = 30$$

S55. Ans.(a)

$$\text{Sol. } \frac{42 \times 12}{36 \times 7} + 11 = ?$$

$$? = 13$$

S56. Ans.(c)

$$\text{Sol. } \frac{50}{300} \times 684 \div \left(\frac{100}{900} \times 171 \right) = ?$$

$$114 \times \frac{1}{19} = ?$$

$$? = 6$$

S57. Ans.(b)

$$\text{Sol. } 360 \div 120 + \sqrt{?} = 26$$

$$\sqrt{?} = 26 - 3$$

$$\sqrt{?} = 23$$

$$? = 529$$

S58. Ans.(a)

$$\text{Sol. } ?^2 \% \text{ of } 125 = 625 - 20$$

$$?^2 = \frac{605 \times 100}{125}$$

$$?^2 = 121 \times 4$$

$$?^2 = 11 \times 11 \times 2 \times 2$$

$$? = 11 \times 2 = 22$$

S59. Ans.(d)

$$\text{Sol. } 2 \times 1.25 + \frac{15 \times 150}{900} = ?$$

$$2.5 + 2.5 = ?$$

$$? = 5$$

S60. Ans.(e)

$$\text{Sol. } 15 \times 21 \times \frac{2}{15} = ? - 8$$

$$? = 42 + 8$$

$$? = 50$$

S61. Ans.(b)

$$\text{Sol. } \sqrt{841} + \sqrt{1296} - \sqrt{1024} = \sqrt{?}$$

$$29 + 36 - 32 = \sqrt{?}$$

$$\sqrt{?} = 33$$

$$? = (33)^2$$

$$= 1089$$

S62. Ans.(d)

$$\begin{aligned}\text{Sol. } 14400 \div 36 + 15600 \div 12 + 450 &= 1800 + ? \\ 400 + 1300 + 450 &= 1800 + ? \\ 2150 &= 1800 + ? \\ ? &= 2150 - 1800 \\ &= 350\end{aligned}$$

S63. Ans.(a)

$$\begin{aligned}\text{Sol. } 7450 + 5880 - 6890 &= 9000 - ? \\ ? &= 9000 - 6440 \\ &= 2560\end{aligned}$$

S64. Ans.(c)

$$\begin{aligned}\text{Sol. } 32 \times 25 + 44 \times 18 + 348 \div 6 &= ? \\ ? &= 800 + 792 + 58 \\ &= 1650\end{aligned}$$

S65. Ans.(c)

$$\begin{aligned}\text{Sol. } \sqrt{1225} \times 28 + 203 \times 7 &= (?)^2 \\ (?)^2 &= 35 \times 28 + 203 \times 7 \\ &= 980 + 1421 \\ &= 2401 \\ ? &= \sqrt{2401} \\ &= 49\end{aligned}$$

S66. Ans.(d)

$$\begin{aligned}\text{Sol. } \frac{132}{100} \times 55 + \frac{685}{1200} \times 48 &= ?^2 \\ 72.6 + 27.4 &= ?^2 \\ ? &= \sqrt{100} \\ ? &= 10\end{aligned}$$

S67. Ans.(c)

$$\begin{aligned}\text{Sol. } 52703 + 41297 - 58000 &= 100 \times ? \\ 94000 - 58000 &= 100 \times ? \\ \frac{36000}{100} &= ? \\ ? &= 360\end{aligned}$$

S68. Ans.(a)

$$\begin{aligned}\text{Sol. } \frac{13.2 \times 6}{4.4} - \frac{27.5}{13.75} &= ? \\ 18 - 2 &= ? \\ ? &= 16\end{aligned}$$

S69. Ans.(b)

$$\begin{aligned}\text{Sol. } \frac{2744}{28 \times 14} + 42 &= 7^? \\ 7 + 42 &= 7^? \\ 7^2 &= 7^? \\ ? &= 2\end{aligned}$$

S70. Ans.(d)

$$\begin{aligned}\text{Sol. } \frac{264}{24} + \frac{190}{5} &= \frac{?}{5} \\ ? &= (11 + 38) \times 5 \\ ? &= 49 \times 5 \\ ? &= 245\end{aligned}$$

S71. Ans.(e)

$$\begin{aligned}\text{Sol. } \frac{1}{8} \times 1440 - 867 + 721 &= ? \\ 180 - 867 + 721 &= ? \\ ? &= 34\end{aligned}$$

S72. Ans.(d)

$$\begin{aligned}\text{Sol. } 64 + 624 - ? &= 296 \\ ? &= 392\end{aligned}$$

S73. Ans.(c)

$$\begin{aligned}\text{Sol. } 289 + 896 + 144 - 275 &= ? \\ ? &= 1054\end{aligned}$$

S74. Ans.(a)

$$\begin{aligned}\text{Sol. } 3 \times 98 + \frac{4}{3} \times 33 - 69 &= ? \\ ? &= 269\end{aligned}$$

S75. Ans.(b)

$$\begin{aligned}\text{Sol. } 33 + \frac{1}{16} \times 4096 &= ? + 238 \\ ? &= 33 + 256 - 238 \\ ? &= 51\end{aligned}$$

S76. Ans.(c)

$$\begin{aligned}\text{Sol. } ?^2 &= \frac{512 \times 2916}{81 \times 72} \\ ?^2 &= 256 \\ ? &= 16\end{aligned}$$

S77. Ans.(b)

$$\begin{aligned} \text{Sol. } \frac{9}{2} + \frac{11}{3} + \frac{17}{6} &= ? + \frac{12}{5} + \frac{21}{10} \\ 4 + \frac{1}{2} + 3 + \frac{2}{3} + 2 + \frac{5}{6} &= ? + 2 + \frac{2}{5} + 2 + \frac{1}{10} \\ 9 + \frac{3+4+5}{6} &= ? + 4 + \frac{4+1}{10} \\ 9 + 2 &= ? + 4 + \frac{1}{2} \\ 11 - 4 - \frac{1}{2} &=? \\ \Rightarrow ? &= 6\frac{1}{2} \end{aligned}$$

S78. Ans.(e)

$$\begin{aligned} \text{Sol. } 5^{?-2} &= \frac{5^5}{25^3} \times \frac{125^2}{625} \\ 5^{?-2} &= \frac{5^5}{(5^2)^3} \times \frac{(5^3)^2}{5^4} = \frac{5^5 \times 5^6}{5^6 \times 5^4} \\ 5^{?-2} &= 5^1 \\ ? - 2 &= 1 \\ ? &= 3 \end{aligned}$$

S79. Ans.(b)

$$\begin{aligned} \text{Sol. } ? \times \frac{65}{72} &= \frac{195 \times 352}{192} \\ ? &= \frac{195 \times 352 \times 72}{192 \times 65} \\ ? &= 396 \end{aligned}$$

S80. Ans.(c)

$$\begin{aligned} \text{Sol. } \sqrt[2]{256} \times (1728)^{\frac{1}{3}} &= ? \times (4096)^{\frac{1}{4}} \\ 16 \times (12^3)^{\frac{1}{3}} &= ? \times (8^4)^{\frac{1}{4}} \\ ? &= \frac{16 \times 12}{8} = 24 \end{aligned}$$

S81. Ans.(b)

$$\begin{aligned} \text{Sol. } \frac{?}{100} \times 350 - 361 + 1260 &= 1032 \\ \frac{?}{100} \times 350 &= 1032 - 899 \\ ? &= 38 \end{aligned}$$

S82. Ans.(a)

$$\begin{aligned} \text{Sol. } (?)^2 &= 39 + 420 + 217 \\ (?)^2 &= 676 \\ ? &= 26 \end{aligned}$$

S83. Ans.(d)

$$\begin{aligned} \text{Sol. } \frac{46}{100} \times 1500 + \frac{36}{100} \times 750 &= ? + 420 \\ ? &= 690 + 270 - 420 \\ ? &= 540 \end{aligned}$$

S84. Ans.(d)

$$\begin{aligned} \text{Sol. } ? \times 13 &= \frac{161}{6} \times \frac{156}{23} \\ ? &= \frac{182}{13} \\ ? &= 14 \end{aligned}$$

S85. Ans.(c)

$$\begin{aligned} \text{Sol. } \frac{?+26}{100} \times 1200 &= 500 - 20 \\ ? + 26 &= \frac{480}{12} \\ ? &= 14 \end{aligned}$$

S86. Ans.(d)

$$\begin{aligned} \text{Sol. } \frac{640}{?} &= (3375 - 2700) \times \frac{1}{33.75} \\ \frac{640}{?} &= 20 \\ ? &= 32 \end{aligned}$$

S87. Ans.(b)

$$\begin{aligned} \text{Sol. } ?^2 &= \frac{85}{100} \times 280 + 34 - 224 + 96 \\ ?^2 &= 144 \\ ? &= 12 \end{aligned}$$

S88. Ans.(b)

$$\begin{aligned} \text{Sol. } 39 + 441 - 90 &= 5 \times ? \\ 5 \times ? &= 390 \\ ? &= 78 \end{aligned}$$

S89. Ans.(a)

$$\begin{aligned} \text{Sol. } (?)^2 &= \frac{48}{100} \times 800 + \frac{125}{100} \times 1200 - 120 \\ (?)^2 &= 384 + 1500 - 120 \\ (?)^2 &= 1764 \\ ? &= 42 \end{aligned}$$

S90. Ans.(b)

$$\begin{aligned} \text{Sol. } \frac{?}{100} \times 700 &= 1166 - 18 \\ ? &= \frac{1148}{7} \\ ? &= 164 \end{aligned}$$

S91. Ans.(c)

Sol. $2\frac{3}{5} + 3\frac{2}{3} - 1\frac{1}{2} - 1\frac{23}{30} = ?$

$$? = \frac{13}{5} + \frac{11}{3} - \frac{3}{2} - \frac{53}{30}$$

$$? = 3$$

S92. Ans.(b)

Sol. $3 \times 4 - 2 + 9 = ?$

$$? = 19$$

S93. Ans.(d)

Sol. $\frac{8 \times 16 \times 16 \times 16}{8 \times 8} = (2)^{?-2}$

$$\Rightarrow (2)^{?-2} = (2)^9 \Rightarrow ? - 2 = 9$$

$$\Rightarrow ? = 11$$

S94. Ans.(e)

Sol. $\frac{39}{13} \times \frac{38}{19} \times 100 = ? \times 10$

$$? = 60$$

S95. Ans.(a)

Sol. $\frac{3}{20} \times 250 + \frac{7}{20} \times 750 - 75 = (?)^2$

$$\frac{75}{2} [1 + 7] - 75 = (?)^2$$

$$? = 15$$

S96. Ans.(c)

Sol. 80% of $? = \sqrt{250 \times 44 + \frac{40 \times 8500}{100}}$

$$\Rightarrow \frac{80}{100} \times ? = \sqrt{11000 + 3400}$$

$$\Rightarrow ? = \sqrt{14400} \times \frac{10}{8}$$

$$\Rightarrow ? = 120 \times \frac{10}{8} = 150$$

S97. Ans.(a)

Sol. $? \times \frac{40}{24} \times 27 = \frac{594}{115} \times \frac{2300}{264}$

$$\Rightarrow ? \times 45 = 45$$

$$\Rightarrow ? = 1$$

S98. Ans.(d)

Sol. $\frac{20}{100} \times 40 \times \sqrt{?} = 32^2 + 16^2$

$$\Rightarrow \sqrt{?} = \frac{1}{8} \times (1024 + 256)$$

$$\Rightarrow \sqrt{?} = \frac{1}{8} \times 1280 = 160$$

$$\Rightarrow ? = (160)^2 = 25600$$

S99. Ans.(b)

Sol. $? + 13 \times 50 = 420 + \frac{45}{100} \times 800 + 220$

$$\Rightarrow ? + 650 = 420 + 360 + 220$$

$$\Rightarrow ? = 1000 - 650 = 350$$

S100. Ans.(e)

Sol. $(?)^{\frac{3}{2}} = 256 \times (2)^8 \div (8)^5 \times 32$

$$\Rightarrow (?)^{\frac{3}{2}} = \frac{2^8 \times 2^8}{2^{15}} \times 2^5$$

$$\Rightarrow (?)^{\frac{3}{2}} = (2)^6 = 64$$

$$\Rightarrow ? = (64)^{\frac{2}{3}} = 16$$

