

Simplification Questions

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DIRECTION (Q. 1-25):- What will come in place of question mark(?) in the following question?

1. $\left\{ 5 + \left[\left(\frac{1}{3} \times \frac{1}{7} \right) \times 3 \right] - 1 \right\} = ?$

- (A) 21/8 (B) 23/5
(C) 29/7 (D) 31/5
(E) 33/5

2. $? = 9 \times 9 + 2 + 26 \div 2 - (18 - 19)$

- (A) 97 (B) 91
(C) 93 (D) 95
(E) 99

3. $49^{9.5} \times 7^{4.5} \div 343^{3.5} = 7^?$

- (A) 11 (B) 13
(C) 17 (D) 19
(E) 21

4. $[6^3 \times 9^2] \div (2^4 + 2) = ?$

- (A) 1458 (B) 972
(C) 8748 (D) 162
(E) None of these

5. $19\% \text{ of } 2500 + 31\% \text{ of } 4250 - 17\% \text{ of } 450 \times 12 = ?$

- (A) 784.3 (B) 874.5
(C) 784.5 (D) 884.5
(E) 868.9

6. $43^2 - 4\% \text{ of } 1030 + 13\% \text{ of } 1200 - 9\% \text{ of } \sqrt{196} = ?\%$

- (A) 12.97% (B) 19.62%
(C) 17.23% (D) 15.57%
(E) 17.98%

7. $466.088 - ? + 64.72 = 508.37$

- (A) 21.938 (B) 22.438
(C) 22.287 (D) 22.647
(E) 22.886

8. $6482.24 + 1448.56 + ? = 9526.26$

- (A) 1959.46 (B) 1546.95
(C) 1946.56 (D) 1569.45
(E) None of these

9. $7\frac{2}{3} - \left\{ \frac{15}{4} - \left(3\frac{1}{7} \times 4\frac{2}{3} \right) \right\} = ?$

- (A) 225/17 (B) 219/17
(C) 212/11 (D) 223/12
(E) 227/13

10. $7\frac{2}{3} + \frac{9}{4} \times \frac{2}{3} \times \frac{15}{7} + \frac{9}{11} = ?$

- (A) 5125/476 (B) 5405/462
(C) 5115/423 (D) 5135/489
(E) 5150/511

11. $12.35 \div 380 - 7.5 \text{ of } 5.8 + (8.988 \div 8 \div 4) - (33.64)^{0.5} = ?$

- (A) -50.986625 (B) -50.886625
(C) -48.986625 (D) -48.886625
(E) None of these

12. $(2222 \div 20) + (645 \div 25) + (3991 \div 26) = ?$

- (A) 285.4 (B) 280.4
(C) 290.4 (D) 295.4
(E) None of these

13. $(0.25)^6 \div (0.125)^2 \times (0.5)^4 = (0.5)^? + 3$
 $(0.25)^6 \div (0.125)^2 \times (0.5)^4 = (0.5)^{?+3}$

- (A) 1 (B) 7

(C) 3 (D) 5

(E) None of these

14. $\frac{(62.25 \div 2.5) + (12.5 \div 0.5)}{(0.75 \times 9) + (3.5 \times 3.5)}$

(A) $\frac{17}{38}$ (B) $2\frac{17}{38}$ (C) $1\frac{38}{17}$ (D) $2\frac{38}{17}$

(E) None of these

15. 62.5% of 800 – 33.33% of 960 = 125% of ?

(A) 120 (B) 144

(C) 165 (D) 180

(E) None of these

16. $(2)^{5 \times (32)^3 \div (64)^3} = (1280 \div 10)^{? + 4}$

(A) 3 (B) 4

(C) 5 (D) 6

(E) None of these

17. $15\frac{2}{3} + 33\frac{1}{3} + 18\frac{3}{4} \times 7\frac{3}{15} = ? - 26$

(A) 180 (B) 195

(C) 210 (D) 235

(E) None of these

18. $\frac{2}{5}$ of $\frac{6}{5}$ of $\frac{5}{12}$ of 44% of 6250 = ?

(A) 400 (B) 450

(C) 500 (D) 550

(E) 600

19. $\sqrt{2916} + \sqrt{1296} = 4.5 \times x$

(A) 20 (B) 25

(C) 28 (D) 32

(E) 36

20. $\left(\frac{8}{3} \times \frac{15}{4}\right) + \left(\frac{52}{9} \times \frac{36}{13}\right) + \left(\frac{15}{2} \times \frac{24}{10}\right) = ?$

(A) 20 (B) 28

(C) 36 (D) 44

(E) 54

21. $987 + 23\% \text{ of } 1500 = ? + 21\% \text{ of } (300 + 400)$

(A) 1275 (B) 1180

(C) 1185 (D) 1075

(E) 1285

22. $(2^4 \times 5^{12} \times 10^{6.8} \times 5^{0.2} \times 2^{0.2} \times 4^6) \times \frac{1}{16} = 10^?$

(A) 10 (B) 17

(C) 15 (D) 19

(E) None of these

23. $(560 + 8.2 + 243.8) \div ? = 769.02 - 566.02$

(A) 5 (B) 6

(C) 4 (D) 3

(E) 2

24. $\{(25)^2 + (35)^2 - (30)^2\} \times \frac{1}{5} = ?$

(A) 199 (B) 159

(C) 119 (D) 190

(E) None of these

25. $20\% \text{ of } 5550 \div ?\% \text{ of } 2500 = 5.55$

(A) 2.4 (B) 6

(C) 8 (D) 9

(E) None of these

DIRECTION (Q. 26-30):- Find the approximate value of (?) in given questions

26. $(22.99 \times 23.01245) + 12.007 \times 7.98 = ?^2$

- (A) 20 (B) 25
(C) 31 (D) 22
(E) 30

27. $87.08 + 913.99 - 260.13\% \text{ of } 129.88 = 74.98\% \text{ of } ?$

- (A) 663 (B) 552
(C) 672 (D) 221
(E) 884

28. $? \% \text{ of } 1049.87 + 74.99\% \text{ of } 420.12 = 750.11\% \text{ of } 70$

- (A) 15 (B) 20
(C) 10 (D) 35
(E) 25

29.

$\sqrt{324.11 \times 19.98 \times 49.99 \times 8.01 \times 20.01} + 25.17\% \text{ of } 31.9 = ?$

- (A) 368 (B) 455
(C) 312 (D) 244
(E) 632

30. $359.99 \times 288.02 \div 14.98 \div 17.94 = \frac{(?^2)}{6}$

- (A) 51 (B) 38
(C) 41 (D) 45
(E) 48

DIRECTION (Q.31-45):- What will come in the place of the question mark '?' in the following question?

31. $48.2 + 87.1 \times 20 + 23.8 \times 2 = ? \times 3^3$

- (A) 12 (B) 10

- (C) 27 (D) 25

(E) None of these

32. $16^{6.3} \times 8^{1.6} \times 16^{7.1} \times 16^6 \times 8^{2.4} \times 4^{0.2} = 4^?$

- (A) 55 (B) 52

- (C) 49 (D) 45

(E) None of these

33. $(4444 \div 44) + (635 \div 25) + (3835 \div 25) = ?$

- (A) 280.8 (B) 279.8

- (C) 279.4 (D) 282.8

(E) None of these

34. $1001 + 120 = 8\% \text{ of } (15\% \text{ of } 7200) + ?$

- (A) 1145.6 (B) 1035.7

- (C) 1034.6 (D) 1034.16

- (E) 1235.76

35. $12\% \text{ of } (75\% \text{ of } (25\% \text{ of } (8\% \text{ of } 4800))) = ?$

- (A) 86.4 (B) 0.0864

- (C) 864 (D) 0.864

- (E) 8.64

36. $\frac{5}{9} + \frac{2 \times 7}{5} - \frac{3 \times 11}{45} = ?$

- (A) 150/45 (B) 166/45

- (C) 118/45 (D) 155/45

- (E) 165/45

37. $937 + (9)^3 \div 27 \times (3)^4 = ?$

- (A) 3385 (B) 3124

- (C) 3276 (D) 3390

- (E) 3374

38. $75\% \text{ of } (15\% \text{ of } 900) - 25\% \text{ of } (35\% \text{ of } 500) = ?$

(A) 55.5 (B) 57.5

(C) 56.5 (D) 52.5

(E) None of these

39. $5\frac{17}{37} \times 4\frac{51}{52} \times 11\frac{1}{7} + 2\frac{3}{4} = ?$

(A) 120.50 (B) 450.78

(C) 305.75 (D) 710.34

(E) 340.65

40. $\sqrt{7056} + 13 \times 24 - 1157 \div 13 = ?$

(A) 136.45 (B) 123.85

(C) 142.95 (D) 307

(E) None of these

41. $\left(\frac{3}{2} \times \frac{32}{6} \times \frac{3}{8}\right) + \left(\frac{3}{8} \times \frac{24}{11} \times \frac{22}{9}\right) = ?$

(A) 5 (B) 8

(C) 10 (D) 12

(E) 15

42. $(3000+80+6160) \div ? = 330$

(A) 26 (B) 22

(C) 28 (D) 29

(E) 18

43. $? \times (224.5+285.5)=10200$

(A) 32 (B) 22

(C) 28 (D) 20

(E) 30

44. $\left(\frac{5 \times 5 \times 5 \times 5 \times 5}{2+2+2+2+2}\right) = ?$

(A) 275.5 (B) 312.5

(C) 325.5 (D) 375

(E) 425.5

45. $\frac{3}{4} + \frac{5}{8} + \frac{13}{16} + \frac{3}{8} = ?$

(A) $2\frac{9}{16}$ (B) $2\frac{1}{16}$ (C) $2\frac{3}{16}$ (D) $2\frac{7}{16}$ (E) $2\frac{13}{16}$

Directions (Q. 46-55):- What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.)

46. $(34.98)^2 - 4.93 = ? \times 20.03$

(A) 196 (B) 121

(C) 1 (D) -59

(E) 61

47. $(?)^2 + 7.95^3 = 30.99^2 - 10.03$

(A) 25 (B) 17

(C) 5 (D) 21

(E) 29

48. $29.03 \times \sqrt{225.05} = ? \times \sqrt{21024.98}$

(A) 12 (B) 6

(C) 3 (D) 9

(E) 15

49. $49.87\% \text{ of } 1289.93 + \sqrt{441.13} = 628.14 + ?$

(A) -4 (B) 38

(C) 59 (D) 45

(E) 108

50. $74.97\% \text{ of } (?)^2 = 165.94 + 682.10 \div 2.12$

(A) 41 (B) 26

(C) 46 (D) 31

(E) 76

51. $14.11 \div 98.91 \times (\sqrt[3]{728.96} \times \sqrt{120.86}) + (14.93)^2 = ?$

- (A) 290 (B) 239
(C) 207 (D) 280
(E) 221

52. $\frac{753+?}{17.93} + 20.86\% \text{ of } 4199.87 + \sqrt{840.76} = (30.89)^2$

- (A) 217 (B) 197
(C) 227 (D) 187
(E) 147

53. $(376.89 + 538.89 - 39.83) + ?\% \text{ of } 799.89 = (29.8)^2$

- (A) 9 (B) 3
(C) 12 (D) 7
(E) 11

54. $37.12\% \text{ of } 6599.87 + (12.96)^2 - ? = (49.92)^2$

- (A) 161 (B) 181
(C) 131 (D) 111
(E) 91

55. $18.12 \times 24.79 - \frac{?}{14.98} + 14.83\% \text{ of } 299.87 = (21.93)^2$

- (A) 105 (B) 125
(C) 145 (D) 185
(E) 165

DIRECTION (56-95):- What will come in place of question mark (?) in the following question?

56. $32 - [5 + 3 \text{ of } (5 \times 5 - 2 \times 10)] = ?$

- (A) 8 (B) 12

- (C) 22 (D) 102

(E) None of these

57. $7^{2.3} \times 2 \times 49^{4.7} \times 63^{3.4} \times 81^{5.85} = 2 \times 63^?$

- (A) 16.25 (B) 15.1
(C) 13.4 (D) 18.9
(E) None of these

58. $5^{11.9} \times 25^{7.2} \div 125^{4.6} = 5^{?+2}$

- (A) 10.5 (B) 9.5
(C) 7.5 (D) 8.5
(E) None of these

59. $2 * \{(9.09\% \text{ of } 468)\}$

- (A) 22.0176 (B) 21.0186
(C) 84 (D) 19.0206
(E) None of these

60. $2.39 \times 65 + 2.39 \times 26 + 2.39 \times 9 = ?$

- (A) 189.8 (B) 239
(C) 244 (D) 396.9
(E) None of these

61. $56\% \text{ of } 350 + 48\% \text{ of } 550 - 15 \times 2.4 = ?$

- (A) 385 (B) 424
(C) 456 (D) 362
(E) 348

62. $(64)^{0.5} \times (32)^{1.4} - ?\% \text{ of } 15 = (28)^2$

- (A) 1600 (B) 3500
(C) 160 (D) 2400
(E) 2100

63. $? \times 6\frac{3}{11} \times 2\frac{9}{23} = 18\% \text{ of } 1500$

- (A) 13 (B) 40
(C) 25 (D) 11
(E) 18

64. $\frac{576}{18} + (32)^2 + ?\% \text{ of } 960 = (36)^2$

- (A) 15 (B) 25
(C) 35 (D) 44
(E) 60

65. $11.2 \times 15 + 6.4 \times 7.5 = (?)^3$

- (A) 15 (B) 21
(C) 3 (D) 6
(E) 9

66. $(24)^3 \times (6)^4 \div 432 = ? \times 108 \div 24$

- (A) 9216 (B) 1536
(C) 3072 (D) 384
(E) None of these

67. $55\% \text{ of } 200 + ? = 22\% \text{ of } 400 + 6\% \text{ of } 460$

- (A) 4.4 (B) 3.4
(C) 5.6 (D) 4.8
(E) None of these

68. $30 \div [(28 - 13) \div \{(32 - 8) \div (5 + \frac{1}{3})\}] = ?$

- (A) 7 (B) 6
(C) 9 (D) 5.7
(E) 7.6

69. $7\frac{1}{4} + 8\frac{1}{2} + 9\frac{5}{6} + 4\frac{1}{2} = 25\frac{1}{7} - 3\frac{1}{6} \div 2 + ?$

- (A) 125/19 (B) 135/13
(C) 145/17 (D) 137/21

(E) 140/31

70. $(20+12)\% \text{ of } 430 + 20\% \text{ of } 200 - 5\% \text{ of } 20 = ?\% \text{ of } (1000+300)$

- (A) 12.8% (B) 13.5%
(C) 14.2% (D) 11.9%
(E) 13.7%

71. $\frac{?}{4} \text{ of } \frac{3}{5} \text{ of } \frac{24}{25} \text{ of } 625 = 3125 \times 54$

- (A) 1675 (B) 1875
(C) 2075 (D) 1475
(E) 1650

72. $4846 + 3454 + 5156 = ? + 11342$

- (A) 2114 (B) 2314
(C) 2144 (D) 2014
(E) 2018

73. $4^? \times (8 \times 128) = 256 \times 1024$

- (A) 5 (B) 3
(C) 2 (D) 4
(E) 8

74. $264 \div 8 \times 12 + 224 - 64 = ?$

- (A) 350 (B) 450
(C) 465 (D) 655
(E) 556

75. $\sqrt{1024} + \sqrt{784} - \sqrt[3]{(77+4) \times 9} = ?$

- (A) 31 (B) 69
(C) 40 (D) 51
(E) 71

76. $175\% \text{ of } 460 + 11\% \text{ of } 1700 + 2^? = (729+271)$

- (A) 18 (B) 3

(C) 13

(D) 15

(A) 67

(B) 61

(E) 24

(C) 77

(D) 76

77. 84% of 525 + 46% of 450 = (?) + 55% of 880

(E) 86

(A) 251

(B) 195

84. $5\frac{1}{6} - 3\frac{4}{9} + ? = \frac{7}{3} \times 4\frac{1}{6}$

(C) 164

(D) 351

(A) 8

(B) 9

(E) 245

(C) 7

(D) 6

78. $\sqrt[3]{54872} \times 304 \div 8 = (?)^2$

(E) 4

(A) 38

(B) 55

85. $\frac{5 \times 1.8 - 3 \times 1.4}{0.8 \times 2} + 9^2 = 0.4 \times ?$

(C) 78

(D) 64

(A) 180

(B) 150

(E) 12

(C) 210

(D) 110

79. (?) % of 250 - 24% of 500 = (?)

(E) 220

(A) 80

(B) 85

86. $1596 \times 189 \div 49 - 3398 + 1564 = ?$

(C) 75

(D) 82

(A) 3845

(B) 4322

(E) 88

(C) 4566

(D) 4850

80. $\frac{1}{(0.125)^{-3}} \div (0.25)^2 \times (0.5)^2 = (0.5)^{? - 4}$

(E) None of these

(A) 12

(B) 18

87. $1001 \div 56 \times 112 - 1202 = ?$

(C) 14

(D) 11

(A) 600

(B) 700

(E) None of these

(C) 800

(D) 900

81. $(181 \times 4 + 5) \div 9 = 65 + ?$

(E) None of these

(A) 56

(B) 6

88. $\sqrt{4624} + \sqrt{841} + 1 = 14 \times ?$

(C) 16

(D) 26

(A) 6

(B) 7

(E) 46

(C) 8

(D) 9

82. 17% of 900 + 21% of 1400 = 581 - ?

(E) None of these

(A) 134

(B) 74

89. $966.69 + 996.96 + 966.35 = ?$

(C) 154

(D) 94

(A) 2540

(B) 2770

(E) 144

(C) 2820

(D) 2930

83. $(20\frac{1}{2} - 15\frac{3}{6}) + ? = 30\frac{1}{3} + 32\frac{11}{3}$

(E) 3450

90. $5852 \div 63 \times 36 = ? \times 19$

- (A) 176 (B) 192
(C) 212 (D) 246
(E) 272

91. $155 \times 6 + 836 \times 5 = ?\%$ of 7000

- (A) 56 (B) 63
(C) 69 (D) 73
(E) 82

92. $\frac{224}{x} = \frac{x}{56}$, find the value of x.

- (A) 78 (B) 92
(C) 104 (D) 112
(E) 128

93. $\sqrt{?} = (39 \times 315) \div 117$

- (A) 9644 (B) 11025
(C) 12544 (D) 13689
(E) None of these

94. $104832 \div ? = 64 \times 42$

- (A) 28 (B) 32
(C) 39 (D) 42
(E) None of these

95. $\frac{2}{5} \times \frac{10}{14} \times \frac{21}{26}$ of 3692 = ?

- (A) 784 (B) 852
(C) 896 (D) 924
(E) None of these

(Direction Q.96-100) Find the approximate value of the following:

96. 339% of 803 + 77.8% of 1107 = ?

- (A) 3250 (B) 3580
(C) 3970 (D) 4260
(E) None of these

97. 32.88% of 1506 + 46.94% of 804 = ?

- (A) 870 (B) 950
(C) 1020 (D) 1120
(E) None of these

98. 58.5% of 4862 + ? % of 2748 = 3505

- (A) 18% (B) 24%
(C) 32% (D) 38%
(E) None of these

99. $1206 \div 47.92 + 40.11 \times 16.96 = ?$

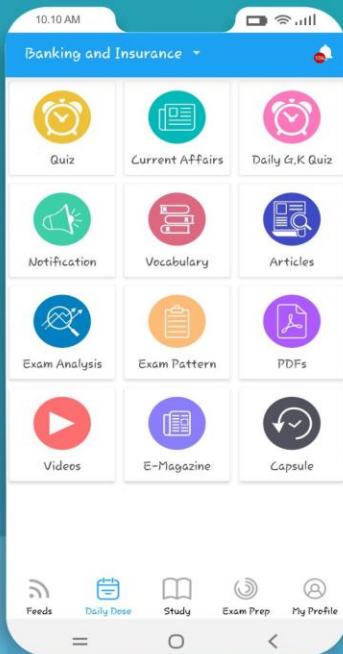
- (A) 705 (B) 775
(C) 850 (D) 960
(E) None of these

100. 148% of 1212 – 11.99 × 25.02 = ?

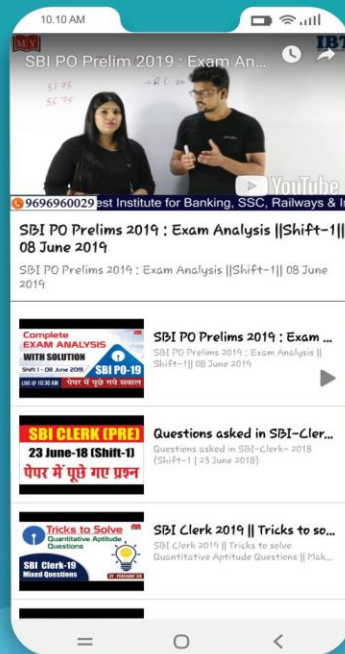
- (A) 1420 (B) 1500
(C) 1550 (D) 1680
(E) 1800

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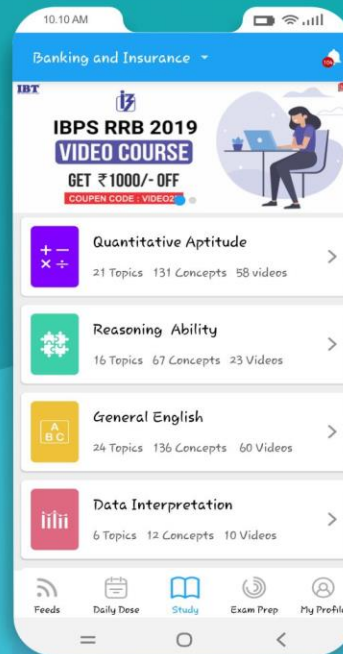
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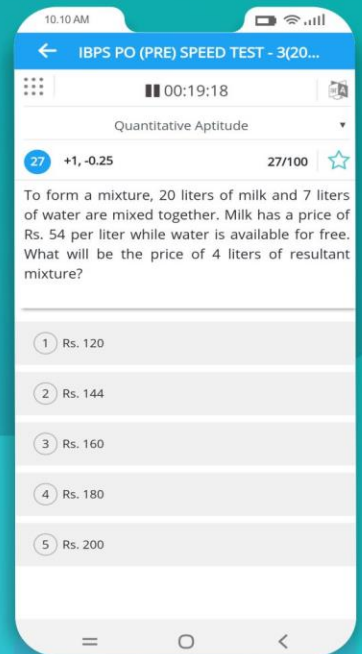
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