

Most Important Simplifications

100 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% of 1500 = ? + 21% 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% of 5550 ÷ ?% 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.

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

(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% of (15% of 900) – 25% of (35% 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% of $1289.93 + \sqrt{441.13} = 628.14 + ?$

(A) -4

(B) 38

(C) 59

(D) 45

(E) 108

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

(A) 41

(B) 26

(C) 46

(D) 31

(E) 76

51. $14.11 \div 98.91 \times (\sqrt[3]{728.96} \times 120.86 + 14.932) = ?$

(A) 290

(B) 239

(C) 207

(D) 280

(E) 221

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

(A) 217

(B) 197

(C) 227

(D) 187

(E) 147

53.

$(376.89 + 538.89 - 39.83 + ?\%$ of $799.89 = 29.82$

(A) 9

(B) 3

(C) 12

(D) 7

(E) 11

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

(A) 161

(B) 181

(C) 131

(D) 111

(E) 91

55.

$18.12 \times 24.79 - \frac{?}{14.98} + 14.83\%$ 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

(E) 24

77. $84\% \text{ of } 525 + 46\% \text{ of } 450 = (?) + 55\% \text{ of } 880$

(A) 251 (B) 195

(C) 164 (D) 351

(E) 245

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

(A) 38 (B) 55

(C) 78 (D) 64

(E) 12

79. $(?)\% \text{ of } 250 - 24\% \text{ of } 500 = (?)$

(A) 80 (B) 85

(C) 75 (D) 82

(E) 88

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

(A) 12 (B) 18

(C) 14 (D) 11

(E) None of these

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

(A) 56 (B) 6

(C) 16 (D) 26

(E) 46

82. $17\% \text{ of } 900 + 21\% \text{ of } 1400 = 581 - ?$

(A) 134 (B) 74

(C) 154 (D) 94

(E) 144

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

(A) 67 (B) 61

(C) 77 (D) 76

(E) 86

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

(A) 8 (B) 9

(C) 7 (D) 6

(E) 4

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

(A) 180 (B) 150

(C) 210 (D) 110

(E) 220

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

(A) 3845 (B) 4322

(C) 4566 (D) 4850

(E) None of these

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

(A) 600 (B) 700

(C) 800 (D) 900

(E) None of these

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

(A) 6 (B) 7

(C) 8 (D) 9

(E) None of these

89. $966.69 + 996.96 + 966.35 = ?$

(A) 2540 (B) 2770

(C) 2820 (D) 2930

(E) 3450

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

(A) 176 (B) 192

(C) 212 (D) 246

(E) 272

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

(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 – $11.99 \times 25.02 = ?$**

(A) 1420 (B) 1500

(C) 1550 (D) 1680

(E) 1800

Solution :**1.(C)**

$$= 5 + \frac{1}{7} - 1$$

$$= \frac{35+1-7}{7}$$

$$\Rightarrow \frac{29}{7}$$

2.(A)

$$= 81 + 2 + 13 + 1$$

$$= 97$$

3.(B)

$$\Rightarrow 7^{19+4.5-10.5} = 7^x$$

$$\Rightarrow 7^{13} = 7^x$$

$$\Rightarrow x = 13$$

4.(B)

$$\frac{216 \times 81}{18} = 972$$

5. (B)

$$475 + 1317.50 - 918$$

$$= 874.50$$

6.(B)

$$1849 - \frac{4}{100} \times 1030 + \frac{13}{100} \times 1200 - \frac{9}{100} \times 14$$

$$\Rightarrow 1849 - 41.2 + 156 - 1.26$$

$$\Rightarrow 19.62\%$$

7. (B)

$$\Rightarrow 466.088 - ? + 64.72 = 508.37$$

$$\Rightarrow 508.37 - 530.808$$

$$\Rightarrow 22.438$$

8.(E)

$$6482.24 + 1448.56 + ? = 9526.26$$

$$? = 9526.26 - 6482.24 - 1448.56$$

$$\Rightarrow 1595.46$$

9.(D)

$$= \frac{23}{3} - \left[\frac{15}{4} - \frac{44}{3} \right]$$

$$\Rightarrow \frac{223}{12}$$

10.(B)

$$= \frac{23}{3} + \frac{9}{4} \times \frac{2}{3} \times \frac{15}{7} + \frac{9}{11}$$

$$= \frac{23}{3} + \frac{45}{14} + \frac{9}{11} = \frac{5405}{462}$$

11. (C)

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

$$\frac{12.35}{380} - 7.5 \times 5.8 + .280875 - 5.8 = ?$$

$$0.0325 - 43.5 + .280875 - 5.8 = ?$$

$$? = -48.986625$$

12. (C)

$$\frac{2222}{20} + \frac{645}{25} + \frac{3991}{26} = ?$$

$$? = 111.1 + 25.8 + 153.5$$

$$? = 290.4$$

13.(B)

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

$$(0.5)^{12} \div (0.5)^6 \times (0.5)^4 = (0.5)^{?+3}$$

$$(0.5)^{12-6+4} = (0.5)^{?+3}$$

$$(0.5)^{10} = (0.5)^{?+3}$$

$$10 = ? + 3$$

$$? = 7$$

14. (E)

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

$$? = \frac{24.9 + 25}{6.75 + 12.25}$$

$$? = \frac{49.9}{19} = \frac{499}{190}$$

$$? = 2 \frac{119}{190}$$

15. (B)

$$62.5\% \text{ of } 800 - 33.33\% \text{ of } 960 = 125\% \text{ of } x$$

$$125\% \text{ of } x = \frac{800}{8} \times 5 - \frac{960}{3}$$

$$125\% \text{ of } x = 500 - 320$$

$$x = 180 \times \frac{100}{125}$$

$$x = 144$$

16. (A)

$$(2)^5 \times (32)^3 \div (64)^2 = (40 \div 10)^{?+1}$$

$$(2)^5 \times (2)^{15} \div (2)^{12} = (4)^{?+1}$$

$$(2)^8 = (2)^{2x+2}$$

Base is same

$$8 = 2x+2$$

$$x = 3$$

17. (C)

$$? - 26 = \left(\frac{47}{3}\right) + \left(\frac{100}{3}\right) + \left(\frac{75}{4}\right) \times \left(\frac{108}{15}\right)$$

$$? - 26 = \left(\frac{47+100}{3}\right) + 135$$

$$? - 26 = 49 + 135$$

$$? = 210$$

18. (D)

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

$$= 550$$

19. (A)

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

$$54 + 36 = 4.5 \times x$$

$$x = 90 \times \frac{10}{45}$$

$$= 20$$

20. (E)

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

$$= 10 + 16 + 18$$

$$= 54$$

21. (C)

$$987 + 354 = x + 147$$

$$x = 1185$$

22.(D)

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

$$5^{12} \times 10^{6.8} \times 5^{0.2} \times 2^{0.2} \times 4^6 = 10^x$$

$$5^{12+0.2} \times 10^{6.8} \times 2^{0.2} \times (2^2)^6 = 10^x$$

$$5^{12.2} \times 10^{6.8} \times 2^{12.2} = 10^x$$

$$10^{19} = 10^x$$

$$x = 19$$

23.(C)

$$(568.2 + 243.8) \div ? = 769.02 - 566.02$$

$$\frac{812}{x} = 203$$

$$x = 4$$

24.(D)

$$1/5 * (625 + 1225 - 900) = x$$

$$x = 190$$

25.(C)

$$\frac{20}{100} \times 5550 + x\% \times 2500 = 5.55$$

$$25 \times x = \frac{1110}{5.55}$$

$$25 \times x = 200$$

$$x = 8$$

26.(B)

$$(23 \times 23) + 12 \times 8 = x^2$$

$$529 + 96 = x^2$$

$$625 = x^2$$

$$x = 25$$

27.(E)

$$87 + 914 - 338 = \frac{75}{100} \times x$$

$$\frac{663 \times 100}{75} = 884$$

28.(B)

$$x \% \times 1050 = 725 - 315$$

$$x = 20$$

29. (A)

$$? = \sqrt{324 \times \sqrt{20 \times 50 \times 8 \times 20}} + 25\% \text{ of } 32$$

$$? = \sqrt{324 \times 20 \times 20} + 8$$

$$? = 368$$

30.(E)

$$\frac{360 \times 288}{15 \times 18} = \frac{x^2}{6}$$

$$x^2 = 2304$$

$$x = 48$$

31.(B)

$$48.2 + 174.2 + 47.6 = x \times 27$$

$$270 = x \times 27$$

$$x = 10$$

32.(D)

$$(4^2)^{6.3} \times (4 \times 2)^{1.6} \times (4^2)^{7.1} \times (4^2)^6 \times (4 \times 2)^{2.4} 4^{0.4} = 4^x$$

$$4^{43} \times 2^4 = 4^x$$

$$43 + 2 = 45$$

$$\Rightarrow x = 45$$

33.(B)

$$101 + 25.4 + 153.4$$

$$\Rightarrow 279.8$$

34.(C)

$$1121 = \frac{8}{100} \times \left(\frac{15}{100} \times 7200 \right) + x$$

$$1121 = 86.4 + x$$

$$\Rightarrow x = 1034.6$$

35.(E)

$$\frac{12}{100} \times \left[\frac{3}{4} \times \left[\frac{1}{4} \times (48 \times 8) \right] \right]$$

$$= \frac{3}{25} \times \left[\frac{3}{4} \times 96 \right]$$

$$= \frac{3}{25} \times 3 \times 24$$

$$= \frac{216}{25} = 8.64$$

36. (C)

$$\frac{5}{9} + \frac{14}{5} - \frac{33}{45} = ?$$

$$\frac{25 + 126 - 33}{45} = ?$$

$$\frac{118}{45} = ?$$

37.(B)

$$937 + \frac{(9)^3}{27} \times 3^4 = ?$$

$$937 + (9)^3 \times 3 = ?$$

$$937 + 729 \times 3 = ?$$

$$937 + 2187 = ?$$

$$3124 = ?$$

38.(B)

$$? = 75\% \text{ of } \left(\frac{15}{100} \times 900 \right) - 25\% \text{ of } \left(\frac{35}{100} \times 500 \right)$$

$$? = \left(\frac{75}{100} \times 135 \right) - \left(\frac{25}{100} \times 175 \right)$$

$$? = 101.25 - 43.75$$

$$? = 57.5$$

39.(C)

$$? = \left\{ \frac{202}{37} \times \frac{259}{52} \times \frac{78}{7} \right\} + \left(\frac{11}{4} \right)$$

$$? = \left(303 + \frac{11}{4} \right) = \frac{1223}{4}$$

$$\Rightarrow 305.75$$

40.(D)

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

$$84 + 13 \times 24 - 1157 \div 13 = ?$$

$$84 + 13 \times 24 - 89 = ?$$

$$84 + 312 - 89 = ?$$

$$396 - 89 = ?$$

$$\Rightarrow ? = 307$$

41.(A)

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

$$= 3 + 2$$

$$\Rightarrow 5$$

42.(C)

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

$$= \frac{9240}{330}$$

$$\Rightarrow 28$$

43.(D)

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

$$\frac{10200}{510} = 20$$

44. (B)

$$\frac{5 \times 5 \times 5 \times 5 \times 5}{2 + 2 + 2 + 2 + 2} = ?$$

$$= \frac{3125}{10}$$

$$\Rightarrow 312.5$$

45.(A)

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

$$= \frac{12 + 10 + 13 + 6}{16}$$

$$= \frac{41}{16}$$

$$\Rightarrow 2\frac{9}{16}$$

46.(E)

$$? = (35^2 - 5) / 20$$

$$= (1225 - 5) / 20$$

$$\Rightarrow 1220 / 20 = 61$$

47.(D)

$$(?)^2 \approx 31^2 - 10 - 8^3$$

$$= 961 - 10 - 512 = 439$$

$$\Rightarrow ? \approx 21$$

48.(C)

$$? = (29 \times \sqrt{225}) / \sqrt{21025}$$

$$= \left(29 \times \frac{15}{145} \right) = 3$$

49.(B)

$$P \approx \left(50 \times \frac{1290}{100} \right) + \sqrt{441} - 628$$

$$= 645 + 21 - 628$$

$$\Rightarrow 38$$

50.(B)

$$75\% \text{ of } (?)^2 = 166 + \frac{682}{2}$$

$$= 166 + 341 = 507$$

$$?^2 = 507 \times \frac{75}{100}$$

$$= 676$$

$$? = 26$$

51.(B)

$$\frac{14}{99} \times (3\sqrt{729} \times \sqrt{121}) + (15)^2 = ?$$

$$14 + 225 = ?$$

$$? = 239$$

52.(E)

$$\frac{753 + ?}{18} + \frac{21}{100} \times 4200 + \sqrt{841} = (31)^2$$

$$\frac{753 + ?}{18} = 961 - 911$$

$$? = 900 - 753$$

$$? = 147$$

53.(B)

$$(377 + 539 - 40) + \frac{?}{100} \times 800 = (30)^2$$

$$876 + ? \times 8 = 900$$

$$? = \frac{(900 - 876)}{8}$$

$$? = 3$$

54.(D)

$$\frac{37}{100} \times 6600 + 169 - ? = (50)^2$$

$$2442 + 169 - ? = 2500$$

$$? = 2611 - 2500$$

$$? = 111$$

55.(E)

$$18 \times 25 - \frac{?}{15} + \frac{15}{100} \times 300 = (22)^2$$

$$450 - \frac{?}{15} + 45 = 484$$

$$\frac{?}{15} = 495 - 484$$

$$? = 165$$

56.(B)

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

$$32 - [5 + 3 \times (25 - 20)]$$

$$32 - 20 = 12$$

57.(B)

$$7^{2.3} \times (7^2)^{4.7} \times 63^{3.4} \times (9^2)^{5.85}$$

$$7^{11.7} \times 63^{3.4} \times 9^{11.7} = 63^?$$

$$63^{11.7} \times 63^{3.4} = 63^?$$

$$? = 15.1$$

58.(A)

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

$$5^{9.9} \times \frac{(5^2)^{7.2}}{(5^3)^{4.6}} = 5^?$$

$$5^{9.9 + 14.4 - 13.8} = 5^?$$

$$? = 10.5$$

59.(C)

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

$$?=84$$

60.(B)

$$2.39 \times [65 + 26 + 9]$$

$$\Rightarrow 2.39 \times 100$$

$$= 239$$

61.(B)

$$\frac{56}{100} \times 350 + \frac{48}{100} \times 550 - 15 \times \frac{24}{10} = x$$

$$196 + 264 - 36 = x$$

$$424 = x$$

$$x = 424$$

62. (A)

$$64^{1/2} \times 32^{7/5} - \frac{x}{100} * 15 = 784$$

$$8 \times 128 - 784 = 15 \times \frac{x}{100}$$

$$240 = 15 * \frac{x}{100}$$

$$x = 1600$$

63. (E)

$$x \times \frac{69}{11} \times \frac{55}{23} = \frac{18}{100} \times 1500$$

$$x = \frac{18 \times 15 \times 11 \times 23}{69 \times 55}$$

$$x = 18$$

64. (B)

$$x\% \text{ of } 960 = (36)^2 - \frac{576}{18} - (32)^2$$

$$x\% \text{ of } 960 = 1296 - 32 - 1024$$

$$x = 25$$

65. (D)

$$\frac{112}{10} \times 15 \times \frac{64}{10} \times \frac{75}{10} = (x)^3$$

$$168 + 48 = (x)^3$$

$$\sqrt[3]{216} = x$$

$$x = 6$$

66. (A)

$$\frac{(24)^3 \times (6)^4}{432} = x \times \frac{108}{24}$$

$$\frac{(6)^3 \times (4)^3 \times 6^4}{(6)^3 \times 2} = \frac{x \times (2)^2 \times (3)^3}{(3) \times (2)^3}$$

$$x = \frac{(6)^3 \times (4)^3 \times (6)^4 \times 3 \times (2)^3}{(6)^3 \times (2)^3 \times (3)^3}$$

$$x = \frac{(4)^3 \times (6)^4}{3^2}$$

$$= \frac{(4)^3 \times (3)^4 \times (2)^4}{3^2}$$

$$= 64 \times 9 \times 16$$

$$= 9216$$

67. (C)

$$\frac{55}{100} \times 200 + x = \frac{22}{100} \times 400 + \frac{6}{100} \times 460$$

$$\Rightarrow 110 + x = 88 + 27.6$$

$$x = 115.6 - 110$$

$$x = 5.6$$

68. (C)

$$30 \div \left[15 \div \left[24 \div \frac{16}{3} \right] \right]$$

$$30 \div \left[15 \div \left[24 \times \frac{3}{16} \right] \right]$$

$$30 \div \left[15 \times \frac{2}{9} \right]$$

$$30 \div \left[\frac{5 \times 2}{3} \right]$$

$$\Rightarrow 30 \times \frac{3}{10} \Rightarrow 9$$

69. (D)

$$\frac{29}{4} + \frac{17}{2} + \frac{59}{6} + \frac{9}{2} = \frac{176}{7} - \frac{19}{6} \div 2 + x$$

$$\Rightarrow \frac{29}{4} + \frac{17}{2} + \frac{9}{2} + \frac{59}{6} + \frac{19}{12} = \frac{176}{7} + x$$

$$\Rightarrow \frac{87 + 102 + 54 + 118 + 19}{12} = \frac{176}{7} + x$$

$$\Rightarrow \frac{380}{12} - \frac{176}{7} = x$$

$$\Rightarrow \frac{95}{3} - \frac{176}{7}$$

$$\Rightarrow \frac{137}{21} = x$$

$$\Rightarrow x = 137/21$$

70.(B)

(20+12)% of 430 + 20% of 200 – 5% of 40 = ?%
of (1000+300)

$$= \frac{32}{100} \times 430 + \frac{20}{100} \times 200 - \frac{5}{100} \times 40$$

$$= \frac{x}{100} \times 1300$$

$$137.6 + 40 - 2 = 13x\%$$

$$\Rightarrow 175.6 = 13x\%$$

$$\Rightarrow x = 175.6 \times \frac{100}{13}$$

$$= 13.5\%$$

71.(B)

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

$$? = 1875$$

72. (A)

$$? = 13456 - 11342$$

$$\Rightarrow 2114$$

73.(D)

$$4^? \times 4^5 = 4^4 \times 4^5$$

$$\Rightarrow 4^? = 4^4$$

$$\Rightarrow ? = 4$$

74.(E)

$$= 396 + 224 - 64$$

$$? = 556$$

75.(D)

$$? = 32 + 28 - 9$$

$$? = 51$$

76.(B)

$$\frac{175}{100} \times 460 + \frac{11}{100} \times 1700 + 2^x = 1000$$

$$= 805 + 187 + 2^x = 1000$$

$$= 992 + 2^x = 1000$$

$$2^x = 1000 - 992$$

$$2^x = 8$$

$$2^x = 2^3$$

$$\Rightarrow x = 3$$

77.(C)

$$= \frac{84}{100} \times 525 + \frac{46}{100} \times 450$$

$$= x + \frac{55}{100} \times 880$$

$$= 441 + 207 = x + 484$$

$$= 684 - 484 = x$$

$$\Rightarrow x = 164$$

78.(A)

$$38 \times 304 \div 8 = x^2$$

$$38 \times 38 = x^2$$

$$x = \sqrt{38} \times 38$$

$$x = 38$$

79.(A)

$$x\% \times 250 - 24\% \times 500 = x$$

$$\frac{x}{100} \times 250 - \frac{24}{100} \times 500 = x$$

$$\frac{5x}{2} - x = 120$$

$$\frac{5x - 2x}{2} = 120$$

$$\frac{3}{2} \times x = 120$$

$$x = 120 \times \frac{2}{3}$$

$$\Rightarrow x = 80$$

80.(D)

$$(0.5)^9 \div (0.5)^4 \times (0.5)^2 = (0.5)^{?-3}$$

$$(0.5)^{9-4+2} = (0.5)^{?-3}$$

$$(0.5)^7 = (0.5)^{?-3}$$

$$7 = ? - 4$$

$$? = 11$$

81.(C)

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

$$(724 + 5) \div 9 = 65 + ?$$

$$729 \div 9 = 65 + ?$$

$$81 = 65 + ?$$

$$? = 81 - 65$$

$$? \Rightarrow 16$$

82.(A)

$$\frac{17}{100} \times 900 + \frac{21}{100} \times 1400 = 581 - ?$$

$$17 \times 9 + 21 \times 14 = 581 - ?$$

$$153 + 294 = 581 - ?$$

$$447 = 581 - ?$$

$$? = 581 - 447$$

$$? \Rightarrow 134$$

83.(B)

$$\left(20\frac{1}{2} - 15\frac{3}{6}\right) + ? = 30\frac{1}{3}$$

$$\left(\frac{41}{2} - \frac{93}{6}\right) + ? = \frac{91}{3} + \frac{107}{3}$$

$$\frac{246 - 186}{12} + ? = \frac{198}{3}$$

$$\frac{60}{12} + ? = 66$$

$$5 + ? = 66$$

$$? = 66 - 5$$

$$\Rightarrow ? = 61$$

84.(A)

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

$$\frac{31}{6} - \frac{31}{9} + ? = \frac{7}{3} \times \frac{25}{6}$$

$$31\left(\frac{1}{6} - \frac{1}{9}\right) + ? = \left(\frac{175}{18}\right)$$

$$31\frac{3}{54} + ? = \frac{175}{18}$$

$$\frac{31}{18} + ? = \frac{175}{18}$$

$$? = \frac{144}{18}$$

$$? = 8$$

85.(C)

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

$$\frac{9 - 4.2}{1.6} + 81 = 0.4 \times ?$$

$$3 + 81 = 0.4 \times ?$$

$$84 = 0.4 \times ?$$

$$\Rightarrow ? = 210$$

86. (B)

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

$$= \frac{1596}{49} \times 189 - 3398 + 1564$$

$$= 6156 - 3398 + 1564$$

$$= 4322$$

87. (C)

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

$$= \frac{1001}{56} \times 112 - 1202$$

$$= 2002 - 1202$$

$$= 800$$

88. (B)

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

$$68 + 29 + 1 = 14 \times ?$$

$$= 7$$

89. (D)

$$966.69 + 996.96 + 966.35 = ?$$

$$= 2930$$

90. (A)

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

$$\frac{5852}{63} \times 36 = ? \times 19$$

$$= 176$$

91. (D)

$$155 \times 6 + 836 \times 5 = ?\% \text{ of } 7000$$

$$930 + 4180 = x\% \text{ of } 7000$$

$$\frac{5110}{70} = x$$

$$= 73$$

92. (D)

$$\frac{224}{x} = \frac{x}{56}$$

$$x^2 = 224 \times 56$$

$$x = \sqrt{224 \times 56}$$

$$x = \sqrt{112 \times 2 \times 56}$$

$$x = 112$$

93. (B)

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

$$\sqrt{?} = \frac{(315)}{3}$$

$$\sqrt{?} = 105$$

$$= (105)^2$$

$$= 11025$$

94. (C)

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

$$= \frac{104832}{64 \times 42}$$

$$= 39$$

95. (B)

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

$$= 852$$

96. (B)

$$339\% \text{ of } 803 + 77.8\% \text{ of } 1107 = ?$$

$$= \frac{340 \times 800}{100} + \frac{78 \times 1100}{100}$$

$$= 2720 + 858$$

$$= 3578$$

$$\text{Approx. } 3580$$

97. (A)

$$32.88\% \text{ of } 1506 + 46.94\% \text{ of } 804 = ?$$

$$= \frac{33 \times 1500}{100} + \frac{47 \times 800}{100}$$

$$= 495 + 376$$

$$= 870 \text{ Approx.}$$

98. (B)

$$58.5\% \text{ of } 4862 + ? \% \text{ of } 2748 = 3505$$

$$\frac{58.5 \times 4860}{100} + \frac{x \times 2750}{100} = 3505$$

$$2843 + \frac{x55}{2} = 3505$$

$$\frac{x55}{2} = 3505 - 2843$$

$$x = 662 \times \frac{2}{55}$$

x is approx. 24

99. (A)

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

$$= \frac{1200}{48} + 40 \times 17$$

$$= 25 + 680$$

$$= 705$$

100. (B)

$$148\% \text{ of } 1212 - 11.99 \times 25.02 = ?$$

$$= \frac{150 \times 1200}{100} - 12 \times 25$$

$$= 1800 - 300$$

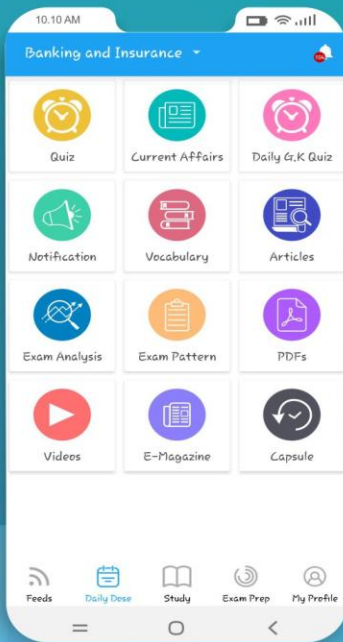
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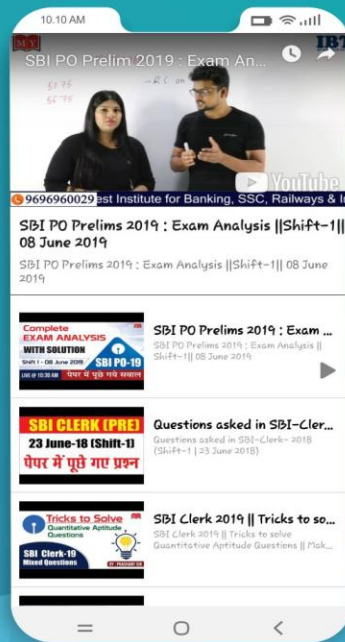
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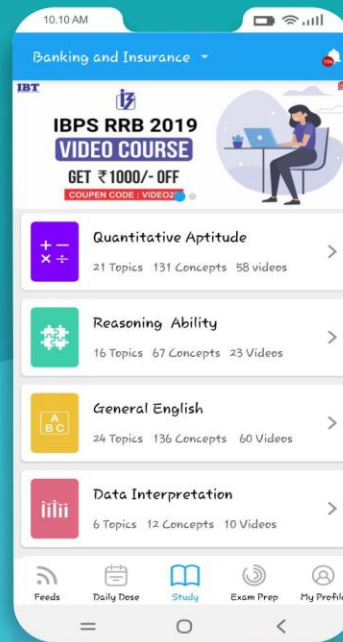
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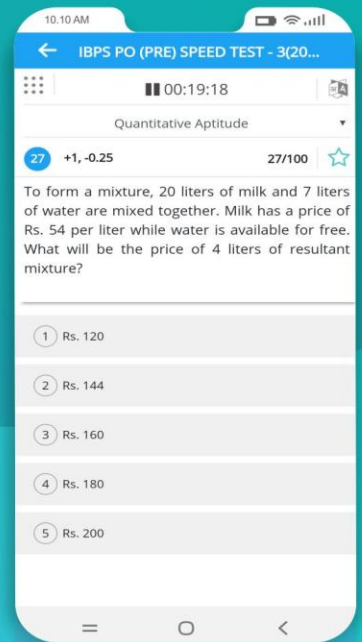
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