

Spardhaguru Skill Edge Aptitude Academy

1st Floor, 608, Panchamantra Rd, P and T Block, Jayanagar, Kuvempunagara, Mysuru, Karnataka 570023

Find the sum of the following :

1) $\frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72} + \frac{1}{90} + \frac{1}{110} = ?$

a) $\frac{6}{55}$ b) $\sqrt{2} \frac{2}{27}$ c) $\frac{5}{27}$ d) $\frac{1}{9}$

2) Find the sum of the following:

$$\frac{1}{9} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72}$$

a) $\frac{1}{2}$ b) 0 c) $\frac{1}{9}$ d) $\frac{1}{2520}$

3) $\left(\frac{1}{2} - \frac{1}{4} + \frac{1}{5} - \frac{1}{6}\right) \div \left(\frac{2}{5} - \frac{5}{9} + \frac{3}{5} - \frac{7}{18}\right),$

a) $5 \frac{1}{10}$ b) $2 \frac{1}{18}$ c) $3 \frac{1}{6}$ d) $3 \frac{3}{10}$

4) $\frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72} + \frac{1}{90} + \frac{1}{110} = ?$

a) $\sqrt{2} \frac{2}{27}$ b) $\frac{1}{9}$ c) $\frac{5}{27}$ d) $\frac{6}{55}$

5) $\left(\frac{5}{2} + \frac{3}{2}\right) \left(\frac{25}{4} - \frac{15}{4} + \frac{9}{4}\right)$ is equal to:

a) 38 b) 19 c) 37 d) 36

6) $\frac{-\frac{1}{2} - \frac{2}{3} + \frac{4}{5} - \frac{1}{3} + \frac{1}{5} + \frac{3}{4}}{\frac{1}{2} + \frac{2}{3} - \frac{4}{3} + \frac{1}{3} - \frac{1}{5} - \frac{4}{5}}$ is simplified to :

a) $-\frac{10}{3}$ b) $-\frac{3}{10}$ c) 1 d) -2

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7) $\left(\frac{1}{3.5} + \frac{1}{5.7} + \frac{1}{7.9} + \frac{1}{9.11} + \frac{1}{11.13} + \frac{1}{13.15}\right)$ is equal to :

- a) $\frac{2}{45}$ b) $\frac{4}{45}$ c) $\frac{7}{45}$ d) $\frac{2}{15}$

8) $\frac{1}{1 \times 6} + \frac{1}{6 \times 11} + \frac{1}{11 \times 16} + \frac{1}{16 \times 21} = ?$

- a) $\frac{3}{21}$ b) $\frac{8}{42}$ c) $\frac{2}{21}$ d) $\frac{20}{21}$

9) $3\frac{2}{5} \times 12\frac{5}{8} - 2\frac{1}{5} \times 5\frac{1}{4} = ?$

- a) $35\frac{1}{5}$ b) $32\frac{5}{8}$ c) $31\frac{3}{8}$ d) $32\frac{2}{5}$ e) $33\frac{1}{8}$

10) $32\frac{3}{4} + 28\frac{1}{2} \times 5\frac{1}{3} - 12\frac{1}{6} = ? + 5\frac{1}{4}$

- a) $171\frac{3}{2}$ b) $167\frac{1}{3}$ c) $166\frac{1}{12}$ d) $161\frac{1}{5}$ e) $172\frac{7}{12}$

11) $\frac{-4}{5} + \frac{7}{10} - \frac{8}{15} - \frac{9}{20} = ?$

- a) $2\frac{4}{50}$ b) $3\frac{5}{40}$ c) $1\frac{5}{60}$ d) $4\frac{1}{30}$ e) $5\frac{5}{20}$

12) $\frac{3}{4} + \frac{7}{8} + \frac{11}{12} + \frac{13}{16} = \frac{?+1}{48}$

- a) 160 b) 140 c) 150 d) 130

13) $\frac{17}{14} \times \frac{784}{361} \div \frac{70}{209} = ?$

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

14) $11160 \div 45 \div 8 = ?$

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a) 35 b) 32 c) 33 d) 31 e) 41

15) $462 \div 8 \div 0.75 = ?$

a) 77 b) 75 c) 78 d) 68 e) 72

16) $\frac{1287}{1645} \times \frac{235}{572} \div 3 \frac{15}{16} = ?$

a) $\frac{52}{441}$ b) $\frac{55}{441}$ c) $\frac{36}{441}$ d) $\frac{35}{441}$ e) $\frac{33}{441}$

17) $\frac{5}{6} \div \frac{6}{7} \times ? - \frac{8}{9} \div 1 \frac{3}{5} + \frac{3}{4} \times 3 \frac{1}{3} = 2 \frac{7}{9}$

a) $\frac{7}{6}$ b) $\frac{6}{7}$ c) 1 2 d) None of these

18) $\frac{5}{8} + \frac{1}{4} + \frac{7}{12} = ?$

a) $1 \frac{11}{24}$ b) $1 \frac{13}{24}$ c) $1 \frac{9}{26}$ d) $1 \frac{7}{24}$ e) None of these

18) $(3584 \div 32) - 11 = \sqrt{?}$

a) 10021 b) 12001 c) 10221 d) 10201

19) $(8423 + 3120 + 6543) \div (1536 + 377 + 189) = ?$

a) 5 b) 14 c) 9 d) 18 e) 3

20) $121 \div \left(\frac{7}{5} \times \frac{3}{8} \times \frac{4}{5}\right) = ?$

a) 168 b) 288 c) 208 d) 298 e) 198

Questions 1 to 20: Basic BODMAS & Mixed Fractions

1) $12 \frac{1}{2} + 15 \frac{1}{3} - 8 \frac{1}{6} = ?$

a) $19 \frac{2}{3}$ b) $18 \frac{1}{3}$ c) $19 \frac{1}{3}$ d) $20 \frac{1}{6}$ e) $18 \frac{5}{6}$

2) $45 \text{ of } \frac{2}{3} \div 1 \frac{1}{2} + 3 \text{ of } 5 - 10 = ?$

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a) 25 b) 27 c) 20 d) 30 e) 22

3) $16 \times 12 - 672 \div 21 = ? - 211$

a) 381 b) 347 c) 371 d) 311 e) 361

4) $\left(\frac{3}{4} \text{ of } \frac{3}{5} \div \frac{4}{5}\right) + \frac{5}{16} = ?$

a) $\frac{7}{8}$ b) $\frac{9}{16}$ c) 1 d) $\frac{11}{16}$ e) $\frac{13}{16}$

5) $2\frac{1}{3} + 3\frac{1}{4} - 1\frac{1}{2} \times 1\frac{1}{3} = ?$

a) $3\frac{7}{12}$ b) $4\frac{1}{12}$ c) $3\frac{5}{12}$ d) $2\frac{11}{12}$ e) $3\frac{1}{6}$

6) $4444 \div 40 + 645 \div 15 + 32 \times 2.5 = ?$

a) 234.1 b) 231.1 c) 235.1 d) 228.1 e) 233.1

7) $[(140)^2 \div 70 \times 16] \div 8 = ?$

a) 560 b) 480 c) 640 d) 320 e) 520

8) $7854 - 2314 + 1581 - 3644 = ?$

a) 3477 b) 3467 c) 3487 d) 3497 e) 3507

9) $65\% \text{ of } 400 + 45\% \text{ of } 240 - 15\% \text{ of } 300 = ?$

a) 323 b) 313 c) 333 d) 303 e) 343

10) $18 \times 15 + 20\% \text{ of } 450 - 360 \div 12 = ?$

a) 330 b) 340 c) 310 d) 320 e) 350

11) $\frac{5}{8} \text{ of } 1600 + \frac{3}{7} \text{ of } 1400 - \frac{4}{9} \text{ of } 1800 = ?$

a) 80 b) 750 c) 850 d) 700 e) 900

12) $(27)^2 + (15)^2 - (12)^2 = ? \times 18$

a) 45 b) 42 c) 48 d) 40 e) 36

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13) $11\frac{1}{9}\% \text{ of } 729 + 12\frac{1}{2}\% \text{ of } 512 = ?$

- a) 145 b) 135 c) 155 d) 125 e) 165

14) $5\frac{1}{2} \div 2\frac{3}{4} \times 4\frac{1}{2} - 3\frac{1}{2} = ?$

- a) 5.5 b) 6.5 c) 4.5 d) 7.5 e) 5.0

15) $1288 \div 23 \times 12 + 142 = ?$

- a) 814 b) 804 c) 824 d) 794 e) 834

16) $40\% \text{ of } (180 + ?) = 120$

- a) 120 b) 100 c) 140 d) 110 e) 130

17) $8.5 \times 14 + 12.5 \times 16 - 25.5 \times 4 = ?$

- a) 217 b) 207 c) 227 d) 237 e) 197

18) $\frac{1}{4} \times (1024 \div 16) + 12^2 = ?$

- a) 160 b) 150 c) 170 d) 140 e) 180

19) $45\% \text{ of } 600 + ?\% \text{ of } 480 = 390$

- a) 25 b) 20 c) 30 d) 15 e) 35

20) $34 \times 255 \div 17 + 125 = ?$

- a) 635 b) 625 c) 645 d) 615 e) 655

Questions 21 to 40: Nested Brackets & Order of Operations

21. $10 - [-5 - \{-11 - (8 - 10 - 3)\}] = ?$

- a) 10 b) 11 c) 12 d) 9 e) 13

22. $1 + 1 \div \{1 + 1 \div (1 + 1 \div 3)\} = ?$

- a) $1\frac{3}{7}$ b) $1\frac{4}{7}$ c) $1\frac{2}{7}$ d) $1\frac{5}{7}$ e) $1\frac{1}{7}$

23. $54 \div 66 \div 33 = ?$

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a) $\frac{9}{363}$ b) $\frac{9}{121}$ c) $\frac{27}{121}$ d) $\frac{3}{121}$ e) $\frac{18}{121}$

24. $\{18 \div (-6)\} \div (-24) \div \{(-24) \div (-8)\} = ?$

a) $\frac{1}{24}$ b) $-\frac{1}{24}$ c) 24 d) -24 e) 1

25. $24 \div [8 - \{6 - (3 - 1)\}] = ?$

a) 6 b) 4 c) 8 d) 3 e) 12

26. $100 \div 5 \times 2 + (16 - 6) \times 3 = ?$

a) 70 b) 60 c) 80 d) 50 e) 90

27. $15 \text{ of } 8 \div 12 + 16 - 4 \times 3 = ?$

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

28. $\left[11 \div 2\frac{1}{5}\right] \div \frac{1}{4} \text{ of } 2\frac{1}{2} - 2 = ?$

a) 6 b) 8 c) 4 d) 10 e) 5

29. $72 \div [18 - \{14 - (15 - 4 \text{ of } 2)\}] = ?$

a) 8 b) 6 c) 12 d) 9 e) 4

30. $48 \div 12 \times \left(\frac{9}{8} \text{ of } \frac{4}{3} \div \frac{3}{4}\right) = ?$

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

31. $(16 \times 4) \div 8 + 35 - 2 \times 12 = ?$

a) 19 b) 17 c) 21 d) 15 e) 23

32. $25 - [20 - \{10 - (7 - 5 - 3)\}] = ?$

a) 16 b) 14 c) 18 d) 12 e) 20

33. $\frac{2}{3} \text{ of } \frac{3}{4} \div \frac{1}{2} + \frac{1}{3} \times 6 - 1 = ?$

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

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34. $\{30 - (12 \div 3)\} + [14 \text{ of } 2 \div 7] = ?$

- a) 30 b) 28 c) 3 d) 26 e) 34

35. $(0.4 \times 0.25) + (0.6 \div 0.12) - 0.1 = ?$

- a) 5.0 b) 4.9 c) 5.1 d) 4.8 e) 5.2

36. $120 \div [15 + \{35 - (20 - 5)\}] = ?$

- a) 3 b) 2 c) 4 d) 5 e) 6

37. 60% of $[250 - \{120 \div 4 \times 3\}] = ?$

- a) 96 b) 90 c) 102 d) 84 e) 108

38. $\frac{1}{2}$ of $[40 + \{18 \times 2 - (10 + 6)\}] = ?$

- a) 30 b) 32 c) 28 d) 34 e) 26

39. $[(18 \times 4) \div 6] + [30 \text{ of } 5 \div 25] = ?$

- a) 18 b) 16 c) 20 d) 14 e) 22

40. $15 + \{8 \times 3 - (14 \div 2 + 5)\} = ?$

- a) 27 b) 25 c) 29 d) 23 e) 31

Questions 41 to 60: Decimals, Squares, Cubes & Roots

41. $\sqrt{1296} + \sqrt{1764} - \sqrt{1024} = ?$

- a) 46 b) 44 c) 4 d) 42 e) 50

42. $(15)^2 + (25)^2 - (20)^2 = ? \times 9$

- a) 50 b) 45 c) 55 d) 40 e) 60

43. $\sqrt[3]{13824} + \sqrt[3]{4096} = ? \times 8$

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

44. $14.5 \times 8 + 16.2 \times 5 - 18.4 \times 4 = ?$

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a) 123.4 b) 122.4 c) 124.4 d) 121.4 e) 125.4

45. $\sqrt{576} \times \sqrt{625} \div 12 = ?$

a) 50 b) 45 c) 55 d) 40 e) 60

46. $(0.2)^3 + (0.3)^3 \div (0.1)^2 = ?$

a) 2.708 b) 2.780 c) 2.078 d) 0.278 e) 2.870

47. $18^2 \div 9 + 15^2 \div 5 = ?$

a) 81 b) 7 c) 84 d) 75 e) 87

48. $\sqrt{2025} \div 9 + \sqrt{3025} \div 11 = ?$

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

49. $3.6 \times 4.5 + 2.8 \times 3.5 = ?$

a) 26.0 b) 25.8 c) 26.2 d) 25.6 e) 26.4

50. $(2.5)^2 + (1.5)^2 - (0.5)^2 = ?$

a) 8.25 b) 8.50 c) 8.00 d) 8.75 e) 7.75

51. $\sqrt{784} + \sqrt{1089} - \sqrt{625} = ?$

a) 36 b) 34 c) 38 d) 32 e) 40

52. $(16)^3 \div (32)^2 \times 64 = 2^?$

a) 8 b) 7 c) 9 d) 6 e) 10

53. $18.5 \times 12 + 24.5 \times 8 = ?$

a) 418 b) 408 c) 428 d) 398 e) 438

54. $\sqrt{1521} + \sqrt{2209} = ?^2 - 10$

a) 9 b) 8 c) 10 d) e) 11

55. $12.5\% \text{ of } 800 + 37.5\% \text{ of } 1600 = ?$

a) 700 b) 650 c) 750 d) 600 e) 800

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56. $(21)^2 + (22)^2 - (23)^2 = ?$

- a) 396 b) 386 c) 406 d) 376 e) 416

57. $\sqrt[3]{17576} \times \sqrt[3]{2744} \div 14 = ?$

- a) 26 b) 24 c) 28 d) 22 e) 30

58. $0.8 \times 0.8 \times 0.8 \div 0.16 = ?$

- a) 3.2 b) 2.8 c) 3.6 d) 2.4 e) 4.0

59. $\sqrt{5041} - \sqrt{3249} = ?$

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

60. $66\frac{2}{3}\% \text{ of } 450 + 33\frac{1}{3}\% \text{ of } 600 = ?$

- a) 500 b) 480 c) 520 d) 460 e) 540

Questions 61 to 80: Approximation Questions

61. $39.98\% \text{ of } 440.01 + 29.99\% \text{ of } 660.12 = ?$

- a) 374 b) 364 c) 384 d) 35 e) 394

62. $\sqrt{1443.95} \times 17.98 \div 8.99 = ?$

- a) 76 b) 72 c) 80 d) 6 e) 84

63. $450.02 \div 14.99 + 24.98 \times 12.01 = ?$

- a) 330 b) 320 c) 340 d) 310 e)

350

64. $(19.98)^2 + (11.02)^2 - (14.99)^2 = ?$

- a) 296 b) 28 c) 3 d) 27 e) 316

65. $74.98\% \text{ of } 1199.98 - 49.99\% \text{ of } 799.98 = ?$

- a) 500 b) 480 c) 52 d) 46 e) 540

66. $\sqrt[3]{728.98} + \sqrt{624.99} \times 3.98 = ?$

- a) 109 b) 10 c) 112 d) 101 e) 115

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67. $1200.01 \div 24.99 \times 4.01 + 149.98 = ?$

- a) 342 b) 332 c) 352 d) 322 e) 362

68. $(13.99)^2 + (17.01)^2 - 25.02 \times 3.99 = ?$

- a) 385 b) 375 c) 395 d) 365 e) 405

69. 84.99% of $599.98 \div 16.99 = ?$

- a) 30 b) 28 c) 32 d) 26 e) 34

70. $\sqrt{2499.98} \times 3.99 + 150.02 = ?$

- a) 350 b) 340 c) 360 d) 330 e) 370

71. $32.01 \times 14.98 - 18.02 \times 11.99 = ?$

- a) 264 b) 254 c) 274 d) 244 e) 284

72. 59.98% of $1250.02 - 39.99\%$ of $850.01 = ?$

- a) 410 b) 400 c) 420 d) 390 e) 430

73. $\sqrt{1023.98} + \sqrt{1680.99} - \sqrt{960.98} = ?$

- a) 42 b) 40 c) 4 d) 38 e) 46

74. $420.02 \div 20.98 \times 15.01 - 120.02 = ?$

- a) 180 b) 170 c) 190 d) 160 e) 200

75. $(24.99)^2 \div 4.99 + 124.98 = ?$

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

76. $16.02 \times 18.99 + 24.01 \times 11.98 = ?$

- a) 592 b) 582 c) 602 d) 572 e) 612

77. 89.99% of $700.02 - 40.01\%$ of $650.02 = ?$

- a) 370 b) 360 c) 380 d) 350 e) 390

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78. $\sqrt[3]{3374.98} \div 4.99 \times 12.02 = ?$

- a) 36 b) 34 c) 38 d) 32 e) 40

79. $18.01 \times 24.99 \div 8.99 + 150.02 = ?$

- a) 200 b) 190 c) 210 d) 180 e) 220

80. $(15.01)^3 \div 44.98 + 125.02 = ?$

- a) 200 b) 190 c) 210 d) 180 e) 220

Questions 81 to 100: Advanced / High-Difficulty Level

81. $14\frac{2}{7}\% \text{ of } 4200 + 16\frac{2}{3}\% \text{ of } 3600 - 37\frac{1}{2}\% \text{ of } 1600 = ?$

- a) 600 b) 550 c) 650 d) 500 e) 700

82. $\sqrt{15625} \div 25 \times 16 + 14^2 = ?$

- a) 276 b) 266 c) 286 d) 25 e) 296

83. $\frac{343 \times 49}{7^4} \times 7^3 = ?$

- a) 4 b) 5 c) 3 d) 6 e) 2

84. $48\% \text{ of } 625 + 64\% \text{ of } 375 = ?$

- a) 540 b) 520 c) 560 d) 500 e) 580

85. $[(18)^2 \times 15] \div 27 + 125 = ?^2$

- a) 17 b) 16 c) 18 d) 15 e) 19

86. $87.5\% \text{ of } 640 + 62.5\% \text{ of } 960 = ?$

- a) 1160 b) 1140 c) 1180 d) 1120 e) 1200

87. $\sqrt{4489} + \sqrt{5476} - \sqrt{3364} = ?$

- a) 83 b) 81 c) 85 d) 79 e) 87

88. $28\% \text{ of } 450 + 45\% \text{ of } 280 = ?$

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a) 252 b) 242 c) 262 d) 232 e) 272

89. $\left(\frac{5}{12} + \frac{7}{18} - \frac{1}{6}\right) \times 72 = ?$

a) 46 b) 44 c) 48 d) 42 e) 50

90. $15.5 \times 24 + 18.5 \times 16 = ?$

a) 668 b) 658 c) 678 d) 648 e) 688

91. $(32)^2 \div 16 \times 8 + (12)^2 = ?$

a) 656 b) 646 c) 666 d) 636 e) 676

92. $40\% \text{ of } 250 + 60\% \text{ of } 350 - 20\% \text{ of } 400 = ?$

a) 230 b) 220 c) 240 d) 210 e) 250

93. $\sqrt[3]{2197} \times \sqrt[3]{1331} \div 11 = ?$

a) 13 b) 12 c) 14 d) 11 e) 15

94. $(0.5)^2 \times 800 + (0.2)^2 \times 2500 = ?$

a) 300 b) 280 c) 320 d) 260 e) 340

95. $910 \div 26 \times 14 + 180 = ?$

a) 670 b) 660 c) 680 d) 650 e) 690

b)

96. $83\frac{1}{3}\% \text{ of } 540 + 16\frac{2}{3}\% \text{ of } 420 = ?$

a) 520 b) 510 c) 530 d) 500 e) 540

97. $(28)^2 - (18)^2 + (14)^2 = ?$

a) 656 b) 646 c) 666 d) 636 e) 676

98. $\frac{4}{5} \times \frac{15}{16} \div \frac{3}{8} \times 12 = ?$

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

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99. $36\% \text{ of } 850 + 64\% \text{ of } 850 = ?$

a) 850 b) 800 c) 900 d) 820 e) 870

100. $\sqrt{2916} + \sqrt{4096} - \sqrt{2304} = ?$

a) 70 b) 68 c) 72 d) 66 e) 74

