

**MENTAL**

+/- 2 Marks per question  
x/÷ 1 Mark per question



**12th All India Abacus & Mental Arithmetic Competition - 2012**  
- Model Paper  
**GRAND LEVEL 1 & 2**

Time Limit : 8 / 200 Q

|               |                    |            |                      |
|---------------|--------------------|------------|----------------------|
| <b>GROUP</b>  | <b>TOTAL MARKS</b> |            | Paper corrector Sign |
| <b>K1, K2</b> |                    | <b>300</b> | Data Entry Sign      |

Chennai Trade Centre, Convention Hall (25/8/2012)

| No. | 1    | 2     | 3    | 4     | 5    | 6    | 7     | 8    | 9     | 10   | 11   | 12    | 13   | 14    | 15   | 16   | 17    | 18   | 19    | 20   | 21   | 22    | 23   | 24    | 25   |
|-----|------|-------|------|-------|------|------|-------|------|-------|------|------|-------|------|-------|------|------|-------|------|-------|------|------|-------|------|-------|------|
| 1   | 3.86 | 5.73  | 7.54 | 3.12  | 8.55 | 3.71 | 9.19  | 6.62 | 9.60  | 4.25 | 1.41 | 5.59  | 6.36 | 5.93  | 4.33 | 1.29 | 8.64  | 5.18 | 4.83  | 4.71 | 7.95 | 6.96  | 9.35 | 3.42  | 2.33 |
| 2   | 5.02 | -4.61 | 4.66 | -2.62 | 2.40 | 1.40 | -7.30 | 8.06 | -6.12 | 3.06 | 4.51 | -4.90 | 3.32 | -4.50 | 4.76 | 4.77 | -5.87 | 8.02 | -2.83 | 7.39 | 8.79 | -3.78 | 4.34 | -1.38 | 8.07 |
| 3   | 9.10 | 1.95  | 3.98 | 8.15  | 6.14 | 4.54 | 5.87  | 4.77 | 5.88  | 3.28 | 7.16 | 8.24  | 2.40 | 1.95  | 1.89 | 9.45 | 9.31  | 3.34 | 6.72  | 5.70 | 4.75 | 5.47  | 1.44 | 5.63  | 9.57 |
| 4   | 2.82 | 9.46  | 4.21 | 5.91  | 9.23 | 1.41 | 6.19  | 2.02 | 8.83  | 7.57 | 1.02 | 2.88  | 5.43 | 7.06  | 7.94 | 3.49 | 1.74  | 9.77 | 3.06  | 9.19 | 9.60 | 3.16  | 4.84 | 9.20  | 2.32 |
| 5   | 7.67 | -8.03 | 8.35 | -7.30 | 1.49 | 7.13 | -3.12 | 4.82 | -1.72 | 3.99 | 8.97 | -6.65 | 3.95 | -5.51 | 1.36 | 7.81 | -6.66 | 1.54 | -2.95 | 5.14 | 7.37 | -1.22 | 7.68 | -7.45 | 7.00 |
| 6   | 5.33 | 6.95  | 1.10 | 5.03  | 3.84 | 9.44 | 6.83  | 7.72 | 1.51  | 4.35 | 4.66 | 9.22  | 5.30 | 4.24  | 1.58 | 3.51 | 2.03  | 1.49 | 6.73  | 2.02 | 5.76 | 8.33  | 4.47 | 9.99  | 3.10 |
| 7   | 2.18 | 5.53  | 2.32 | 3.33  | 9.29 | 8.74 | 2.64  | 7.30 | 7.70  | 9.08 | 3.39 | 2.01  | 5.48 | 9.55  | 4.93 | 5.61 | 7.46  | 5.53 | 2.42  | 9.37 | 3.38 | 5.08  | 8.87 | 9.92  | 8.60 |
| 8   | 7.79 | -5.23 | 3.43 | -6.45 | 6.63 | 5.11 | -5.04 | 1.13 | -5.67 | 8.37 | 6.50 | -3.56 | 7.41 | -2.10 | 2.49 | 4.15 | -4.69 | 3.71 | -4.96 | 1.75 | 2.35 | -2.77 | 6.33 | -7.21 | 1.14 |
| 9   | 6.41 | 3.50  | 3.24 | 4.73  | 8.95 | 3.40 | 5.23  | 7.62 | 6.59  | 3.28 | 3.24 | 6.87  | 2.59 | 5.14  | 8.95 | 4.68 | 7.85  | 2.45 | 5.43  | 9.95 | 2.42 | 9.27  | 6.15 | 1.01  | 7.06 |
| 10  | 6.39 | -2.52 | 5.04 | -8.90 | 2.69 | 9.75 | -6.72 | 1.19 | -3.01 | 3.65 | 1.02 | -4.00 | 6.81 | -8.37 | 7.39 | 9.58 | -6.56 | 7.81 | -3.94 | 6.29 | 3.93 | -1.77 | 2.56 | -5.75 | 6.67 |
| Ans |      |       |      |       |      |      |       |      |       |      |      |       |      |       |      |      |       |      |       |      |      |       |      |       |      |

| No. | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    | 44    | 45    | 46    | 47    | 48    | 49    | 50    |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1   | 1.27  | 8.85  | 2.60  | 7.88  | 4.04  | 5.55  | 2.06  | 1.86  | 9.38  | 7.00  | 4.43  | 6.88  | 5.36  | 1.86  | 5.69  | 2.06  | 5.97  | 4.50  | 8.81  | 6.32  | 1.18  | 3.73  | 3.03  | 9.84  | 2.92  |
| 2   | 30.59 | 87.40 | 73.17 | 65.14 | 86.49 | 30.31 | 32.80 | 23.05 | 54.35 | 82.72 | 19.76 | 93.14 | 11.01 | 50.63 | 80.83 | 25.54 | 35.47 | 65.38 | 71.35 | 87.93 | 58.13 | 63.09 | 26.69 | 12.66 | 83.36 |
| 3   | 4.73  | -4.25 | 2.16  | -2.72 | 7.03  | 2.96  | -1.93 | 7.92  | -3.02 | 1.20  | 4.22  | -8.46 | 9.00  | -1.48 | 7.94  | 9.15  | -4.53 | 2.66  | -1.36 | 3.08  | 4.84  | -8.69 | 5.93  | -5.29 | 7.80  |
| 4   | 28.32 | 91.63 | 13.34 | 12.67 | 84.69 | 30.30 | 98.05 | 57.08 | 52.53 | 91.67 | 55.32 | 90.91 | 60.97 | 71.07 | 70.06 | 95.59 | 86.79 | 25.48 | 77.65 | 55.90 | 21.28 | 21.32 | 92.78 | 38.00 | 44.15 |
| 5   | 75.99 | 82.62 | 26.32 | 98.11 | 48.19 | 94.24 | 56.38 | 61.29 | 40.25 | 41.86 | 83.83 | 56.53 | 58.47 | 27.61 | 88.30 | 34.12 | 13.71 | 83.07 | 72.36 | 76.27 | 85.76 | 82.07 | 87.58 | 52.00 | 19.58 |
| 6   | 6.82  | -4.93 | 8.49  | -2.57 | 6.52  | 5.90  | -1.95 | 9.46  | -1.99 | 6.85  | 3.69  | -6.61 | 8.20  | -4.69 | 3.50  | 4.59  | -9.57 | 1.20  | -3.98 | 3.77  | 5.05  | -3.29 | 5.98  | -5.20 | 3.92  |
| 7   | 84.85 | 77.24 | 60.82 | 22.59 | 60.68 | 71.56 | 69.79 | 98.72 | 21.83 | 13.69 | 55.95 | 19.84 | 92.65 | 69.08 | 94.67 | 50.00 | 30.38 | 26.92 | 96.70 | 57.16 | 80.84 | 68.00 | 87.46 | 77.51 | 91.64 |
| 8   | 2.66  | -6.88 | 5.48  | -5.70 | 8.63  | 8.25  | -2.66 | 3.85  | -7.52 | 5.20  | 2.07  | -2.55 | 5.88  | -7.16 | 5.30  | 9.36  | -1.59 | 7.63  | -6.49 | 1.16  | 9.79  | -6.92 | 9.83  | -9.85 | 2.21  |
| 9   | 41.19 | 19.45 | 76.96 | 75.84 | 57.82 | 55.96 | 53.23 | 19.32 | 92.05 | 17.22 | 10.50 | 64.67 | 70.56 | 98.63 | 75.96 | 82.46 | 55.69 | 67.73 | 53.74 | 37.35 | 77.32 | 77.94 | 93.94 | 30.04 | 52.17 |
| 10  | 4.45  | -2.57 | 5.99  | -5.23 | 1.47  | 2.09  | -7.40 | 8.56  | -6.75 | 5.51  | 9.07  | -8.78 | 5.15  | -8.79 | 1.51  | 6.62  | -5.40 | 2.91  | -1.87 | 6.22  | 6.41  | -9.90 | 8.43  | -2.10 | 6.44  |
| Ans |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

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| <b>K1, K2</b> |                    | <b>300</b> | Data Entry Sign      |

Chennai Trade Centre, Convention Hall (25/8/2012)

| No. | 51    | 52     | 53    | 54     | 55    | 56    | 57     | 58    | 59     | 60    | 61    | 62     | 63    | 64     | 65    | 66    | 67     | 68    | 69     | 70    | 71    | 72     | 73    | 74     | 75    |
|-----|-------|--------|-------|--------|-------|-------|--------|-------|--------|-------|-------|--------|-------|--------|-------|-------|--------|-------|--------|-------|-------|--------|-------|--------|-------|
| 1   | 13.74 | 39.66  | 56.43 | 59.20  | 71.98 | 45.72 | 38.21  | 76.32 | 70.24  | 29.62 | 75.25 | 52.15  | 69.04 | 64.54  | 97.30 | 15.65 | 60.76  | 31.53 | 87.00  | 27.65 | 22.04 | 89.52  | 32.47 | 95.97  | 92.47 |
| 2   | 96.26 | -14.59 | 11.91 | -23.85 | 22.05 | 58.45 | -15.04 | 35.40 | -30.30 | 64.28 | 92.64 | -27.78 | 54.44 | -34.39 | 68.94 | 59.87 | -31.28 | 71.74 | -11.60 | 29.83 | 35.03 | -52.94 | 40.51 | -48.69 | 94.95 |
| 3   | 77.86 | 98.40  | 59.13 | 80.73  | 27.18 | 28.25 | 74.99  | 20.47 | 43.95  | 31.27 | 18.54 | 36.22  | 67.38 | 59.48  | 57.88 | 20.28 | 89.62  | 70.55 | 39.04  | 64.43 | 66.82 | 77.65  | 63.80 | 33.85  | 40.92 |
| 4   | 24.93 | -85.52 | 58.37 | -97.01 | 12.62 | 89.23 | -53.16 | 45.25 | -45.90 | 69.20 | 76.02 | -41.80 | 25.52 | -39.62 | 36.35 | 34.23 | -44.28 | 92.64 | -52.40 | 34.06 | 23.58 | -50.45 | 71.07 | -25.32 | 67.16 |
| 5   | 30.00 | 55.38  | 82.37 | 89.29  | 93.18 | 11.97 | 66.53  | 70.28 | 18.19  | 43.06 | 99.92 | 61.77  | 87.15 | 84.79  | 34.46 | 53.77 | 33.09  | 10.25 | 57.14  | 34.25 | 13.76 | 75.65  | 59.73 | 69.42  | 52.91 |
| 6   | 20.36 | -31.52 | 52.08 | -73.43 | 72.70 | 56.08 | -87.16 | 28.95 | -26.25 | 55.43 | 63.56 | -43.60 | 43.46 | -76.91 | 31.43 | 30.37 | -52.69 | 97.62 | -82.84 | 98.28 | 51.20 | -96.15 | 56.77 | -33.44 | 31.64 |
| 7   | 49.47 | 57.82  | 57.21 | 74.90  | 94.88 | 98.66 | 39.89  | 46.08 | 19.18  | 75.87 | 83.46 | 57.24  | 82.77 | 94.52  | 61.02 | 56.79 | 52.64  | 39.25 | 82.86  | 66.79 | 66.84 | 55.72  | 13.47 | 26.80  | 79.36 |
| 8   | 90.87 | 19.11  | 90.87 | 68.18  | 73.03 | 70.60 | 87.19  | 62.14 | 73.38  | 83.80 | 60.66 | 65.75  | 54.50 | 99.16  | 17.62 | 13.22 | 95.93  | 70.01 | 70.82  | 56.36 | 80.42 | 85.69  | 69.26 | 47.36  | 68.82 |
| 9   | 92.36 | -31.56 | 17.14 | -67.17 | 43.91 | 52.59 | -20.70 | 30.97 | -98.74 | 26.62 | 80.26 | -21.30 | 67.18 | -64.75 | 51.03 | 53.70 | -78.54 | 90.20 | -24.76 | 81.72 | 55.09 | -84.14 | 96.10 | -23.11 | 79.39 |
| 10  | 65.25 | 74.61  | 83.43 | 38.11  | 27.20 | 92.53 | 78.34  | 45.28 | 38.18  | 45.19 | 72.21 | 93.31  | 14.88 | 43.81  | 33.06 | 62.31 | 57.60  | 24.09 | 43.85  | 85.28 | 34.20 | 20.61  | 57.26 | 45.50  | 60.23 |
| Ans |       |        |       |        |       |       |        |       |        |       |       |        |       |        |       |       |        |       |        |       |       |        |       |        |       |

| No. | 76     | 77      | 78     | 79      | 80     | 81     | 82      | 83     | 84      | 85     | 86     | 87      | 88     | 89      | 90     | 91     | 92      | 93     | 94      | 95     | 96     | 97      | 98     | 99      | 100    |
|-----|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|
| 1   | 699.67 | 968.07  | 455.37 | 497.64  | 884.31 | 941.24 | 991.69  | 392.45 | 503.74  | 531.51 | 197.31 | 232.88  | 136.02 | 774.85  | 833.13 | 168.35 | 769.19  | 642.15 | 351.66  | 815.26 | 425.21 | 216.11  | 154.07 | 256.86  | 983.34 |
| 2   | 642.26 | 638.34  | 792.22 | 536.47  | 264.66 | 991.06 | 614.76  | 556.51 | 596.52  | 280.35 | 371.79 | 477.29  | 773.42 | 572.17  | 268.84 | 116.08 | 627.99  | 501.60 | 382.36  | 577.16 | 745.64 | 920.79  | 589.95 | 762.40  | 818.31 |
| 3   | 735.10 | -761.75 | 909.03 | -544.29 | 101.42 | 461.87 | -521.85 | 245.76 | -241.66 | 144.97 | 185.37 | -526.02 | 802.23 | -366.51 | 593.19 | 349.07 | -251.30 | 859.25 | -420.28 | 535.34 | 616.18 | -153.41 | 728.05 | -624.50 | 332.04 |
| 4   | 413.46 | 232.59  | 495.26 | 541.66  | 526.48 | 432.40 | 590.47  | 127.45 | 579.53  | 236.41 | 127.35 | 452.72  | 686.50 | 893.34  | 969.44 | 940.27 | 576.01  | 147.03 | 760.20  | 847.96 | 702.82 | 384.34  | 420.28 | 220.77  | 628.66 |
| 5   | 551.48 | -665.58 | 970.32 | -205.83 | 739.00 | 140.64 | -958.70 | 652.85 | -114.75 | 849.96 | 971.97 | -397.68 | 840.29 | -877.02 | 461.57 | 639.88 | -836.67 | 695.24 | -348.16 | 192.40 | 166.88 | -898.91 | 292.79 | -228.02 | 244.11 |
| 6   | 986.83 | 523.87  | 212.63 | 388.20  | 757.06 | 750.22 | 100.50  | 309.03 | 256.38  | 114.48 | 870.22 | 656.34  | 902.92 | 452.20  | 516.25 | 890.16 | 794.02  | 834.74 | 154.91  | 580.94 | 746.54 | 851.92  | 621.37 | 386.84  | 725.55 |
| 7   | 226.31 | 796.00  | 877.01 | 685.22  | 479.80 | 337.35 | 529.41  | 512.06 | 608.38  | 299.17 | 347.92 | 893.48  | 211.79 | 391.78  | 877.74 | 685.74 | 672.75  | 407.60 | 241.53  | 943.44 | 460.76 | 946.46  | 416.07 | 662.44  | 566.58 |
| 8   | 590.07 | -382.32 | 728.65 | -355.50 | 349.57 | 872.11 | -898.49 | 981.99 | -765.45 | 129.13 | 291.21 | -461.49 | 588.63 | -246.46 | 860.43 | 278.53 | -377.97 | 983.64 | -504.79 | 390.27 | 952.22 | -970.86 | 434.47 | -898.18 | 281.20 |
| 9   | 696.02 | 583.99  | 983.18 | 279.37  | 420.07 | 648.10 | 167.58  | 553.89 | 423.81  | 330.91 | 550.92 | 862.90  | 666.53 | 255.87  | 579.65 | 905.31 | 256.79  | 865.40 | 114.41  | 390.58 | 294.28 | 367.40  | 540.48 | 547.11  | 442.96 |
| 10  | 555.20 | -790.81 | 960.01 | -947.38 | 887.91 | 273.08 | -500.06 | 636.89 | -553.75 | 819.30 | 346.75 | -711.11 | 351.27 | -326.02 | 113.89 | 978.28 | -880.66 | 609.23 | -481.08 | 136.02 | 662.51 | -787.29 | 132.54 | -700.70 | 184.60 |
| Ans |        |         |        |         |        |        |         |        |         |        |        |         |        |         |        |        |         |        |         |        |        |         |        |         |        |

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Chennai Trade Centre, Convention Hall (25/8/2012)

|     |     |   |    |   |  |
|-----|-----|---|----|---|--|
| 101 | 31  | X | 54 | = |  |
| 102 | 42  | X | 61 | = |  |
| 103 | 74  | X | 39 | = |  |
| 104 | 98  | X | 50 | = |  |
| 105 | 67  | X | 28 | = |  |
| 106 | 19  | X | 53 | = |  |
| 107 | 87  | X | 67 | = |  |
| 108 | 76  | X | 85 | = |  |
| 109 | 14  | X | 16 | = |  |
| 110 | 87  | X | 72 | = |  |
| 111 | 655 | X | 57 | = |  |
| 112 | 544 | X | 56 | = |  |
| 113 | 840 | X | 80 | = |  |
| 114 | 359 | X | 70 | = |  |
| 115 | 198 | X | 49 | = |  |
| 116 | 864 | X | 38 | = |  |
| 117 | 749 | X | 20 | = |  |
| 118 | 307 | X | 46 | = |  |
| 119 | 672 | X | 29 | = |  |
| 120 | 999 | X | 17 | = |  |
| 121 | 300 | X | 43 | = |  |
| 122 | 930 | X | 19 | = |  |
| 123 | 508 | X | 31 | = |  |
| 124 | 986 | X | 80 | = |  |
| 125 | 830 | X | 83 | = |  |

|     |      |   |     |   |  |
|-----|------|---|-----|---|--|
| 126 | 117  | X | 418 | = |  |
| 127 | 489  | X | 717 | = |  |
| 128 | 814  | X | 305 | = |  |
| 129 | 944  | X | 204 | = |  |
| 130 | 164  | X | 356 | = |  |
| 131 | 319  | X | 171 | = |  |
| 132 | 649  | X | 238 | = |  |
| 133 | 879  | X | 681 | = |  |
| 134 | 509  | X | 976 | = |  |
| 135 | 925  | X | 184 | = |  |
| 136 | 139  | X | 985 | = |  |
| 137 | 158  | X | 473 | = |  |
| 138 | 160  | X | 463 | = |  |
| 139 | 801  | X | 127 | = |  |
| 140 | 362  | X | 254 | = |  |
| 141 | 7977 | X | 22  | = |  |
| 142 | 7995 | X | 63  | = |  |
| 143 | 2883 | X | 46  | = |  |
| 144 | 6613 | X | 18  | = |  |
| 145 | 6600 | X | 32  | = |  |
| 146 | 1765 | X | 86  | = |  |
| 147 | 3982 | X | 48  | = |  |
| 148 | 7707 | X | 56  | = |  |
| 149 | 9152 | X | 96  | = |  |
| 150 | 7881 | X | 45  | = |  |

|     |       |   |    |   |  |
|-----|-------|---|----|---|--|
| 151 | 1302  | ÷ | 93 | = |  |
| 152 | 56357 | ÷ | 83 | = |  |
| 153 | 1404  | ÷ | 26 | = |  |
| 154 | 29058 | ÷ | 58 | = |  |
| 155 | 2664  | ÷ | 72 | = |  |
| 156 | 2448  | ÷ | 34 | = |  |
| 157 | 4512  | ÷ | 48 | = |  |
| 158 | 7104  | ÷ | 96 | = |  |
| 159 | 8456  | ÷ | 14 | = |  |
| 160 | 67425 | ÷ | 93 | = |  |
| 161 | 3080  | ÷ | 70 | = |  |
| 162 | 2691  | ÷ | 69 | = |  |
| 163 | 672   | ÷ | 56 | = |  |
| 164 | 864   | ÷ | 48 | = |  |
| 165 | 483   | ÷ | 21 | = |  |
| 166 | 21175 | ÷ | 25 | = |  |
| 167 | 1880  | ÷ | 94 | = |  |
| 168 | 2208  | ÷ | 32 | = |  |
| 169 | 3660  | ÷ | 61 | = |  |
| 170 | 4275  | ÷ | 75 | = |  |
| 171 | 4698  | ÷ | 87 | = |  |
| 172 | 8740  | ÷ | 92 | = |  |
| 173 | 8742  | ÷ | 93 | = |  |
| 174 | 860   | ÷ | 43 | = |  |
| 175 | 6348  | ÷ | 23 | = |  |

|     |        |   |      |   |  |
|-----|--------|---|------|---|--|
| 176 | 31746  | ÷ | 74   | = |  |
| 177 | 69685  | ÷ | 77   | = |  |
| 178 | 27060  | ÷ | 60   | = |  |
| 179 | 29376  | ÷ | 64   | = |  |
| 180 | 29172  | ÷ | 34   | = |  |
| 181 | 10710  | ÷ | 90   | = |  |
| 182 | 309491 | ÷ | 91   | = |  |
| 183 | 286939 | ÷ | 43   | = |  |
| 184 | 271200 | ÷ | 30   | = |  |
| 185 | 192332 | ÷ | 28   | = |  |
| 186 | 170658 | ÷ | 18   | = |  |
| 187 | 352560 | ÷ | 52   | = |  |
| 188 | 38632  | ÷ | 22   | = |  |
| 189 | 309491 | ÷ | 3401 | = |  |
| 190 | 286939 | ÷ | 6673 | = |  |
| 191 | 271200 | ÷ | 9040 | = |  |
| 192 | 192332 | ÷ | 6869 | = |  |
| 193 | 170658 | ÷ | 9481 | = |  |
| 194 | 14280  | ÷ | 357  | = |  |
| 195 | 52046  | ÷ | 982  | = |  |
| 196 | 21875  | ÷ | 875  | = |  |
| 197 | 14522  | ÷ | 274  | = |  |
| 198 | 19656  | ÷ | 702  | = |  |
| 199 | 5040   | ÷ | 120  | = |  |
| 200 | 35420  | ÷ | 506  | = |  |