

**MENTAL**
**12th All India Abacus & Mental Arithmetic Competition - 2012**  
**- Model Paper**
**INTERMEDIATE B**
**Time Limit : 8 / 200 Q**

|                                   |                    |            |                      |
|-----------------------------------|--------------------|------------|----------------------|
| <b>GROUP</b><br><b>E1, E2, E3</b> | <b>TOTAL MARKS</b> |            | Paper corrector Sign |
|                                   |                    | <b>300</b> | Data Entry Sign      |

+/- 2 Marks per question

x/÷ 1 Mark per question

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   | 6 | 3  | 6 | 8  | 5 | 5 | 7  | 2 | 7  | 7  | 4  | 4  | 3  | 6  | 1  | 1  | 4  | 8  | 4  | 1  | 6  | 9  | 1  | 2  | 8  |
| 2   | 8 | 6  | 2 | -2 | 4 | 4 | 7  | 4 | -7 | 4  | 1  | -4 | 6  | 7  | 5  | 6  | 4  | 5  | -4 | 3  | 2  | -4 | 7  | 8  | 8  |
| 3   | 2 | -7 | 2 | 5  | 4 | 8 | -2 | 3 | 7  | 5  | 7  | 2  | 6  | -1 | 1  | 1  | 3  | 6  | 5  | 1  | 7  | 7  | 9  | -9 | 9  |
| 4   | 5 | 7  | 8 | -9 | 8 | 8 | 3  | 8 | -4 | 1  | 4  | 6  | 1  | 6  | 8  | 4  | -3 | 3  | 9  | 2  | 2  | -8 | 9  | 8  | 9  |
| 5   | 9 | -6 | 4 | 1  | 2 | 5 | -1 | 1 | 3  | 4  | 5  | -3 | 4  | 7  | 6  | 7  | 7  | 6  | -7 | 5  | 3  | 5  | 9  | -5 | 1  |
| 6   | 7 | 5  | 5 | 4  | 6 | 3 | 4  | 7 | -3 | 7  | 3  | 3  | 8  | -8 | 3  | 9  | -6 | 2  | 8  | 8  | 6  | 5  | 8  | 3  | 6  |
| 7   | 2 | -4 | 8 | 6  | 7 | 2 | 7  | 6 | 3  | 8  | 9  | -6 | 9  | 3  | 3  | 7  | 8  | 3  | 3  | 1  | 2  | 8  | 1  | -6 | 6  |
| 8   | 7 | 4  | 2 | -4 | 3 | 6 | -3 | 9 | 6  | 5  | 1  | 7  | 5  | -8 | 6  | 4  | -2 | 5  | -7 | 7  | 2  | -8 | 7  | 6  | 8  |
| 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   | 2   | 96 | 6  | 9   | 89 | 19  | 59 | 1  | 17  | 29 | 8   | 6  | 8   | 3  | 17 | 9   | 8  | 6   | 5  | 92 | 86  | 4  | 94  | 7  | 2   |
| 2   | 4   | 75 | 4  | 79  | 9  | -3  | 2  | 96 | 72  | 55 | 68  | 2  | -6  | 5  | 6  | 62  | 42 | -5  | 44 | 25 | 78  | 6  | -76 | 53 | -2  |
| 3   | -4  | 27 | 55 | 71  | 9  | 5   | 22 | 7  | -7  | 4  | 42  | 7  | 92  | 2  | 33 | 4   | 37 | 21  | 7  | 84 | -88 | 41 | 9   | 53 | 43  |
| 4   | 81  | 7  | 5  | -91 | 5  | -4  | 1  | 8  | 2   | 7  | -6  | 91 | 38  | 15 | 3  | -73 | 5  | -9  | 6  | 6  | 79  | 44 | 35  | 6  | 96  |
| 5   | -3  | 6  | 16 | 75  | 46 | 8   | 63 | 57 | 2   | 39 | 7   | 86 | -7  | 55 | 63 | 65  | 9  | 38  | 18 | 2  | -6  | 19 | -7  | 9  | 35  |
| 6   | 66  | 2  | 12 | -2  | 1  | -24 | 3  | 41 | -3  | 9  | -7  | 75 | 73  | 2  | 99 | -3  | 22 | 28  | 89 | 8  | 1   | 87 | 13  | 5  | -3  |
| 7   | 63  | 7  | 7  | 6   | 77 | 54  | 28 | 81 | 24  | 8  | 69  | 37 | -57 | 44 | 9  | 85  | 14 | -45 | 88 | 33 | -6  | 3  | -6  | 27 | 4   |
| 8   | -31 | 32 | 38 | -2  | 22 | 48  | 5  | 6  | -28 | 39 | -13 | 4  | 9   | 48 | 3  | -8  | 4  | 7   | 5  | 7  | 8   | 5  | 1   | 87 | -31 |
| Ans |     |    |    |     |    |     |    |    |     |    |     |    |     |    |    |     |    |     |    |    |     |    |     |    |     |

| 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   | 36 | 24  | 44 | 79  | 28 | 45 | 84  | 97 | 63  | 81 | 97 | 78  | 54 | 89  | 94 | 92 | 89  | 22 | 89  | 64 | 88 | 51  | 44 | 33  | 46 |
| 2   | 13 | 51  | 24 | -36 | 41 | 98 | -45 | 11 | -43 | 52 | 52 | -38 | 52 | -22 | 44 | 82 | -44 | 37 | -35 | 70 | 11 | 80  | 98 | -15 | 30 |
| 3   | 99 | -46 | 49 | 58  | 59 | 90 | 39  | 50 | 79  | 52 | 78 | 18  | 87 | 51  | 79 | 43 | 13  | 63 | 87  | 96 | 42 | -39 | 97 | 50  | 37 |
| 4   | 32 | 33  | 49 | 20  | 28 | 84 | 86  | 27 | -14 | 58 | 28 | 13  | 94 | 44  | 22 | 22 | -41 | 58 | -55 | 80 | 76 | 47  | 34 | 18  | 17 |
| 5   | 12 | -22 | 90 | -52 | 88 | 94 | -78 | 76 | 67  | 60 | 84 | -36 | 52 | -43 | 42 | 86 | 60  | 75 | 45  | 74 | 35 | -46 | 58 | -24 | 67 |
| 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   | 94 | 90  | 32 | 87  | 30 | 37 | 97  | 38 | 37  | 58 | 58 | 95  | 96 | 38  | 48 | 59 | 86  | 99 | 68  | 25 | 71 | 98  | 65 | 62  | 53  |
| 2   | 70 | 36  | 61 | 47  | 98 | 47 | -10 | 43 | 76  | 64 | 19 | 50  | 57 | 96  | 49 | 66 | -41 | 80 | 33  | 88 | 99 | -48 | 85 | 33  | 96  |
| 3   | 70 | -99 | 22 | 66  | 70 | 10 | 37  | 41 | -60 | 54 | 39 | 32  | 49 | -49 | 94 | 98 | 52  | 70 | -95 | 85 | 21 | 70  | 12 | -32 | 32  |
| 4   | 36 | 19  | 53 | -86 | 95 | 50 | 92  | 43 | 88  | 56 | 65 | -20 | 83 | 46  | 32 | 35 | -24 | 93 | 84  | 95 | 59 | 84  | 37 | 21  | 88  |
| 5   | 11 | -38 | 36 | 34  | 58 | 69 | -54 | 17 | 97  | 64 | 80 | 21  | 56 | -36 | 56 | 73 | 21  | 42 | -12 | 14 | 98 | -68 | 65 | 20  | 53  |
| 6   | 72 | 49  | 60 | -66 | 27 | 82 | 72  | 64 | -33 | 32 | 45 | -91 | 48 | 54  | 13 | 24 | 65  | 66 | 81  | 21 | 99 | 59  | 26 | -68 | 49  |
| Ans |    |     |    |     |    |    |     |    |     |    |    |     |    |     |    |    |     |    |     |    |    |     |    |     |     |

**MENTAL**



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

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2012 - Model Paper**

**INTERMEDIATE B**

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|                   |                    |                      |
|-------------------|--------------------|----------------------|
| <b>GROUP</b>      | <b>TOTAL MARKS</b> | Paper corrector Sign |
| <b>E1, E2, E3</b> | <b>300</b>         | Data Entry Sign      |

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

|     |    |   |   |   |  |
|-----|----|---|---|---|--|
| 101 | 57 | X | 3 | = |  |
| 102 | 27 | X | 4 | = |  |
| 103 | 98 | X | 2 | = |  |
| 104 | 15 | X | 4 | = |  |
| 105 | 74 | X | 6 | = |  |
| 106 | 52 | X | 8 | = |  |
| 107 | 43 | X | 5 | = |  |
| 108 | 50 | X | 8 | = |  |
| 109 | 50 | X | 2 | = |  |
| 110 | 54 | X | 5 | = |  |
| 111 | 28 | X | 2 | = |  |
| 112 | 31 | X | 2 | = |  |
| 113 | 43 | X | 4 | = |  |
| 114 | 33 | X | 5 | = |  |
| 115 | 27 | X | 2 | = |  |
| 116 | 80 | X | 2 | = |  |
| 117 | 94 | X | 6 | = |  |
| 118 | 40 | X | 3 | = |  |
| 119 | 61 | X | 5 | = |  |
| 120 | 72 | X | 5 | = |  |
| 121 | 68 | X | 8 | = |  |
| 122 | 77 | X | 4 | = |  |
| 123 | 76 | X | 3 | = |  |
| 124 | 57 | X | 9 | = |  |
| 125 | 50 | X | 5 | = |  |

|     |   |   |    |   |  |
|-----|---|---|----|---|--|
| 126 | 3 | X | 77 | = |  |
| 127 | 9 | X | 28 | = |  |
| 128 | 8 | X | 19 | = |  |
| 129 | 6 | X | 71 | = |  |
| 130 | 2 | X | 92 | = |  |
| 131 | 3 | X | 65 | = |  |
| 132 | 2 | X | 57 | = |  |
| 133 | 4 | X | 60 | = |  |
| 134 | 5 | X | 56 | = |  |
| 135 | 3 | X | 45 | = |  |
| 136 | 3 | X | 69 | = |  |
| 137 | 3 | X | 70 | = |  |
| 138 | 7 | X | 59 | = |  |
| 139 | 9 | X | 82 | = |  |
| 140 | 4 | X | 98 | = |  |
| 141 | 3 | X | 18 | = |  |
| 142 | 4 | X | 73 | = |  |
| 143 | 5 | X | 76 | = |  |
| 144 | 9 | X | 90 | = |  |
| 145 | 2 | X | 65 | = |  |
| 146 | 7 | X | 10 | = |  |
| 147 | 9 | X | 58 | = |  |
| 148 | 2 | X | 73 | = |  |
| 149 | 9 | X | 80 | = |  |
| 150 | 4 | X | 82 | = |  |

|     |     |   |   |   |  |
|-----|-----|---|---|---|--|
| 151 | 204 | ÷ | 4 | = |  |
| 152 | 96  | ÷ | 8 | = |  |
| 153 | 630 | ÷ | 7 | = |  |
| 154 | 344 | ÷ | 8 | = |  |
| 155 | 288 | ÷ | 9 | = |  |
| 156 | 462 | ÷ | 7 | = |  |
| 157 | 171 | ÷ | 3 | = |  |
| 158 | 194 | ÷ | 2 | = |  |
| 159 | 171 | ÷ | 9 | = |  |
| 160 | 192 | ÷ | 8 | = |  |
| 161 | 160 | ÷ | 8 | = |  |
| 162 | 390 | ÷ | 5 | = |  |
| 163 | 328 | ÷ | 4 | = |  |
| 164 | 186 | ÷ | 3 | = |  |
| 165 | 270 | ÷ | 6 | = |  |
| 166 | 140 | ÷ | 4 | = |  |
| 167 | 153 | ÷ | 3 | = |  |
| 168 | 585 | ÷ | 9 | = |  |
| 169 | 164 | ÷ | 2 | = |  |
| 170 | 747 | ÷ | 9 | = |  |
| 171 | 588 | ÷ | 6 | = |  |
| 172 | 752 | ÷ | 8 | = |  |
| 173 | 680 | ÷ | 8 | = |  |
| 174 | 84  | ÷ | 7 | = |  |
| 175 | 190 | ÷ | 2 | = |  |

|     |     |   |   |   |  |
|-----|-----|---|---|---|--|
| 176 | 696 | ÷ | 8 | = |  |
| 177 | 603 | ÷ | 9 | = |  |
| 178 | 434 | ÷ | 7 | = |  |
| 179 | 513 | ÷ | 9 | = |  |
| 180 | 245 | ÷ | 5 | = |  |
| 181 | 264 | ÷ | 8 | = |  |
| 182 | 560 | ÷ | 8 | = |  |
| 183 | 623 | ÷ | 7 | = |  |
| 184 | 259 | ÷ | 7 | = |  |
| 185 | 345 | ÷ | 5 | = |  |
| 186 | 637 | ÷ | 7 | = |  |
| 187 | 34  | ÷ | 2 | = |  |
| 188 | 300 | ÷ | 5 | = |  |
| 189 | 180 | ÷ | 9 | = |  |
| 190 | 72  | ÷ | 2 | = |  |
| 191 | 238 | ÷ | 7 | = |  |
| 192 | 425 | ÷ | 5 | = |  |
| 193 | 38  | ÷ | 2 | = |  |
| 194 | 120 | ÷ | 4 | = |  |
| 195 | 656 | ÷ | 8 | = |  |
| 196 | 216 | ÷ | 4 | = |  |
| 197 | 784 | ÷ | 8 | = |  |
| 198 | 480 | ÷ | 5 | = |  |
| 199 | 528 | ÷ | 8 | = |  |
| 200 | 308 | ÷ | 7 | = |  |