

MENTAL



12th All India Abacus & Mental Arithmetic Competition - 2012
- Model Paper
HIGHER A

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

Time Limit : 8 / 200 Q

| | | | |
|----------------------------|--------------------|------------|----------------------|
| GROUP F1, F2, F3 | TOTAL MARKS | | Paper corrector Sign |
| | | 300 | 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 | 1 | 4 | 2 | 1 | 9 | 9 | 7 | 7 | 6 | 2 | 8 | 6 | 4 | 9 | 7 | 6 | 6 | 2 | 9 | 1 | 5 | 3 | 6 | 5 | 2 |
| 2 | 3 | 7 | 1 | 9 | 5 | 5 | -2 | 1 | 9 | 2 | 9 | 1 | 5 | -2 | 6 | 4 | -6 | 1 | 8 | 2 | 8 | 4 | 5 | -2 | 5 |
| 3 | 7 | -1 | 4 | -5 | 2 | 5 | 7 | 6 | 8 | 5 | 8 | -7 | 3 | 2 | 3 | 8 | 8 | 8 | -2 | 5 | 9 | 4 | 3 | 5 | 3 |
| 4 | 3 | 2 | 8 | 1 | 9 | 2 | 7 | 9 | -4 | 5 | 3 | 7 | 7 | -4 | 3 | 7 | 5 | 4 | 4 | 9 | 8 | -1 | 1 | -5 | 1 |
| 5 | 9 | -7 | 8 | 5 | 8 | 4 | -4 | 7 | 3 | 8 | 4 | -4 | 1 | 6 | 3 | 7 | 4 | 4 | -5 | 8 | 6 | 8 | 7 | 9 | 7 |
| 6 | 7 | 7 | 1 | -6 | 1 | 4 | 3 | 4 | -1 | 9 | 3 | 3 | 5 | -8 | 9 | 4 | -5 | 4 | 5 | 3 | 5 | -2 | 2 | 2 | 4 |
| 7 | 1 | -9 | 5 | 9 | 9 | 2 | -2 | 1 | 7 | 3 | 4 | -5 | 6 | 5 | 5 | 2 | 7 | 7 | -2 | 7 | 8 | 9 | 5 | -9 | 8 |
| 8 | 1 | 2 | 1 | -3 | 8 | 6 | 8 | 9 | -7 | 3 | 4 | 6 | 4 | -7 | 9 | 9 | -6 | 5 | 3 | 8 | 8 | -2 | 7 | 4 | 4 |
| 9 | 6 | -4 | 5 | 2 | 6 | 9 | -5 | 5 | 7 | 8 | 2 | 7 | 9 | 1 | 7 | 2 | 1 | 6 | -7 | 8 | 8 | 5 | 9 | -6 | 5 |
| 10 | 8 | 8 | 5 | -2 | 7 | 6 | 8 | 7 | -3 | 3 | 3 | -2 | 5 | 8 | 8 | 8 | -1 | 2 | 3 | 6 | 7 | -2 | 1 | 6 | 7 |
| 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 | 83 | 88 | 70 | 89 | 53 | 22 | 31 | 60 | 85 | 52 | 75 | 58 | 73 | 61 | 77 | 82 | 68 | 81 | 65 | 92 | 19 | 67 | 62 | 89 | 39 |
| 2 | 31 | 11 | 33 | 18 | 10 | 43 | 41 | 33 | -82 | 30 | 32 | -57 | 56 | 90 | 42 | 51 | 68 | 76 | -47 | 50 | 34 | -58 | 59 | 87 | 39 |
| 3 | 98 | -57 | 96 | -83 | 12 | 26 | -15 | 32 | 52 | 12 | 26 | 66 | 78 | 87 | 76 | 93 | 78 | 92 | 60 | 25 | 26 | 62 | 80 | -48 | 70 |
| 4 | 70 | 38 | 41 | 32 | 64 | 48 | 71 | 71 | -28 | 70 | 87 | 56 | 25 | -82 | 46 | 42 | -10 | 16 | 91 | 32 | 22 | 91 | 21 | 23 | 31 |
| 5 | 97 | 52 | 83 | -17 | 61 | 18 | 74 | 19 | 57 | 15 | 56 | -11 | 93 | 39 | 73 | 11 | 78 | 56 | -28 | 77 | 41 | -56 | 67 | 84 | 68 |
| 6 | 46 | -16 | 95 | 45 | 57 | 58 | -45 | 89 | 89 | 62 | 96 | 98 | 38 | -89 | 82 | 91 | -47 | 66 | 32 | 75 | 97 | 18 | 46 | -72 | 34 |
| 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 | | | | | | | | | | | | 17 | 86 | 68 | 10 | 55 | 20 | 53 | 45 | 95 | 81 | 61 | 57 | 25 | |
| 2 | 89 | 39 | 10 | 72 | 91 | 80 | 11 | 17 | 92 | 29 | 41 | 89 | 88 | 93 | 68 | 63 | -36 | 57 | -26 | 29 | 16 | -31 | 27 | -54 | 50 |
| 3 | 59 | 41 | 15 | 93 | 55 | 67 | 47 | 84 | 10 | 83 | 92 | 10 | 24 | -26 | 40 | 69 | 38 | 81 | 10 | 95 | 32 | 42 | 45 | 65 | 27 |
| 4 | 49 | 66 | 90 | -14 | 50 | 28 | 96 | 73 | 63 | 34 | 97 | -22 | 75 | 41 | 87 | 84 | -38 | 43 | 96 | 16 | 34 | -14 | 76 | -65 | 52 |
| 5 | 56 | -30 | 88 | 67 | 76 | 57 | -57 | 24 | -78 | 58 | 98 | 72 | 48 | -80 | 55 | 49 | 62 | 76 | -28 | 88 | 95 | 53 | 39 | 29 | 57 |
| 6 | 71 | 80 | 31 | 72 | 30 | 28 | 98 | 33 | 19 | 57 | 23 | 89 | 22 | 68 | 17 | 79 | 64 | 85 | 84 | 46 | 43 | 62 | 45 | 60 | 47 |
| 7 | 95 | -95 | 20 | 98 | 70 | 30 | 14 | 49 | 50 | 21 | 97 | -69 | 74 | 75 | 34 | 97 | -10 | 62 | 87 | 72 | 72 | -37 | 64 | -36 | 56 |
| 8 | 14 | 21 | 75 | -91 | 79 | 25 | -73 | 62 | -56 | 81 | 69 | 51 | 29 | -90 | 66 | 73 | 67 | 18 | -35 | 20 | 23 | 52 | 94 | 31 | 16 |
| 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 | | | | | | | | | | | | | 13 | 43 | 22 | 66 | 32 | 56 | 32 | 72 | 58 | 56 | 35 | 56 | 66 |
| 2 | 97 | 42 | 13 | 94 | 60 | 57 | 63 | 57 | 72 | 58 | 91 | 98 | 35 | -26 | 49 | 81 | 42 | 24 | 69 | 15 | 35 | 75 | 69 | 33 | 17 |
| 3 | 66 | 19 | 18 | 15 | 28 | 45 | 49 | 69 | 98 | 10 | 34 | -16 | 47 | 25 | 69 | 79 | -26 | 65 | -21 | 48 | 58 | -85 | 92 | -14 | 15 |
| 4 | 60 | 87 | 49 | -27 | 78 | 55 | -34 | 11 | 33 | 63 | 37 | 57 | 40 | 64 | 16 | 63 | 94 | 17 | 38 | 87 | 10 | 93 | 45 | 54 | 38 |
| 5 | 59 | -58 | 40 | 33 | 57 | 57 | 67 | 71 | 51 | 83 | 32 | -90 | 82 | 99 | 38 | 41 | 91 | 39 | -92 | 25 | 83 | -36 | 93 | -95 | 43 |
| 6 | 93 | 91 | 56 | -79 | 15 | 17 | -23 | 67 | -46 | 43 | 11 | 79 | 26 | 97 | 19 | 19 | 50 | 14 | 78 | 82 | 90 | 55 | 40 | 72 | 42 |
| 7 | 72 | -12 | 41 | 55 | 46 | 51 | 25 | 34 | 88 | 57 | 87 | 66 | 48 | -12 | 41 | 71 | 95 | 29 | 78 | 86 | 60 | 42 | 31 | 84 | 90 |
| 8 | 87 | 75 | 90 | -29 | 30 | 47 | 22 | 65 | -78 | 37 | 13 | 35 | 52 | 65 | 35 | 65 | -73 | 70 | 89 | 83 | 65 | 13 | 60 | 30 | 99 |
| 9 | 48 | -44 | 59 | 40 | 25 | 69 | -22 | 84 | 67 | 25 | 84 | 62 | 24 | -55 | 26 | 32 | 65 | 69 | -15 | 87 | 32 | 26 | 30 | -87 | 15 |
| 10 | 26 | 40 | 44 | 50 | 41 | 32 | 65 | 65 | -20 | 19 | 24 | -20 | 16 | 12 | 35 | 72 | -60 | 20 | 13 | 41 | 22 | -53 | 39 | 91 | 47 |
| Ans | | | | | | | | | | | | | | | | | | | | | | | | | |

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| F1, F2, F3 | 300 | Data Entry Sign |

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

| | | | | | |
|-----|-----|---|---|---|--|
| 101 | 140 | X | 7 | = | |
| 102 | 292 | X | 9 | = | |
| 103 | 510 | X | 7 | = | |
| 104 | 385 | X | 9 | = | |
| 105 | 824 | X | 2 | = | |
| 106 | 912 | X | 5 | = | |
| 107 | 225 | X | 7 | = | |
| 108 | 510 | X | 3 | = | |
| 109 | 204 | X | 4 | = | |
| 110 | 475 | X | 2 | = | |
| 111 | 661 | X | 9 | = | |
| 112 | 680 | X | 9 | = | |
| 113 | 578 | X | 4 | = | |
| 114 | 363 | X | 2 | = | |
| 115 | 740 | X | 3 | = | |
| 116 | 138 | X | 5 | = | |
| 117 | 880 | X | 9 | = | |
| 118 | 133 | X | 5 | = | |
| 119 | 718 | X | 3 | = | |
| 120 | 219 | X | 8 | = | |
| 121 | 321 | X | 2 | = | |
| 122 | 483 | X | 9 | = | |
| 123 | 164 | X | 5 | = | |
| 124 | 684 | X | 9 | = | |
| 125 | 950 | X | 5 | = | |

| | | | | | |
|-----|---|---|-----|---|--|
| 126 | 2 | X | 268 | = | |
| 127 | 9 | X | 548 | = | |
| 128 | 5 | X | 200 | = | |
| 129 | 5 | X | 643 | = | |
| 130 | 4 | X | 861 | = | |
| 131 | 6 | X | 353 | = | |
| 132 | 2 | X | 735 | = | |
| 133 | 5 | X | 636 | = | |
| 134 | 9 | X | 794 | = | |
| 135 | 5 | X | 147 | = | |
| 136 | 9 | X | 242 | = | |
| 137 | 9 | X | 949 | = | |
| 138 | 3 | X | 104 | = | |
| 139 | 9 | X | 917 | = | |
| 140 | 2 | X | 621 | = | |
| 141 | 9 | X | 591 | = | |
| 142 | 2 | X | 534 | = | |
| 143 | 5 | X | 589 | = | |
| 144 | 5 | X | 304 | = | |
| 145 | 9 | X | 574 | = | |
| 146 | 8 | X | 711 | = | |
| 147 | 9 | X | 500 | = | |
| 148 | 4 | X | 991 | = | |
| 149 | 2 | X | 694 | = | |
| 150 | 2 | X | 858 | = | |

| | | | | | |
|-----|-----|---|---|---|--|
| 151 | 117 | ÷ | 9 | = | |
| 152 | 273 | ÷ | 7 | = | |
| 153 | 142 | ÷ | 2 | = | |
| 154 | 30 | ÷ | 2 | = | |
| 155 | 180 | ÷ | 4 | = | |
| 156 | 504 | ÷ | 7 | = | |
| 157 | 644 | ÷ | 7 | = | |
| 158 | 24 | ÷ | 2 | = | |
| 159 | 385 | ÷ | 5 | = | |
| 160 | 264 | ÷ | 8 | = | |
| 161 | 576 | ÷ | 9 | = | |
| 162 | 276 | ÷ | 3 | = | |
| 163 | 504 | ÷ | 9 | = | |
| 164 | 40 | ÷ | 2 | = | |
| 165 | 225 | ÷ | 5 | = | |
| 166 | 400 | ÷ | 5 | = | |
| 167 | 560 | ÷ | 7 | = | |
| 168 | 518 | ÷ | 7 | = | |
| 169 | 248 | ÷ | 4 | = | |
| 170 | 36 | ÷ | 2 | = | |
| 171 | 268 | ÷ | 4 | = | |
| 172 | 165 | ÷ | 3 | = | |
| 173 | 460 | ÷ | 5 | = | |
| 174 | 291 | ÷ | 3 | = | |
| 175 | 48 | ÷ | 2 | = | |

| | | | | | |
|-----|------|---|---|---|--|
| 176 | 2022 | ÷ | 3 | = | |
| 177 | 436 | ÷ | 2 | = | |
| 178 | 4614 | ÷ | 6 | = | |
| 179 | 3801 | ÷ | 7 | = | |
| 180 | 3528 | ÷ | 9 | = | |
| 181 | 3892 | ÷ | 4 | = | |
| 182 | 2055 | ÷ | 5 | = | |
| 183 | 2900 | ÷ | 4 | = | |
| 184 | 956 | ÷ | 2 | = | |
| 185 | 1362 | ÷ | 6 | = | |
| 186 | 6584 | ÷ | 8 | = | |
| 187 | 4140 | ÷ | 5 | = | |
| 188 | 7344 | ÷ | 8 | = | |
| 189 | 1852 | ÷ | 4 | = | |
| 190 | 6831 | ÷ | 9 | = | |
| 191 | 7344 | ÷ | 9 | = | |
| 192 | 2088 | ÷ | 4 | = | |
| 193 | 8055 | ÷ | 9 | = | |
| 194 | 1242 | ÷ | 9 | = | |
| 195 | 1665 | ÷ | 3 | = | |
| 196 | 2934 | ÷ | 6 | = | |
| 197 | 1472 | ÷ | 4 | = | |
| 198 | 6512 | ÷ | 8 | = | |
| 199 | 1344 | ÷ | 2 | = | |
| 200 | 2575 | ÷ | 5 | = | |