

# Soroban Technology Lab

## Mental Calculation Pre-1 Kyu

|      |  |       |  |
|------|--|-------|--|
| No.  |  | Name  |  |
| Date |  | Score |  |

## Mental Multiplication / Mental Division (8 min)

### Mental Multiplication (4 min)

|    |                   |
|----|-------------------|
| 1  | $84 \times 61 =$  |
| 2  | $75 \times 26 =$  |
| 3  | $15 \times 71 =$  |
| 4  | $26 \times 53 =$  |
| 5  | $98 \times 45 =$  |
| 6  | $43 \times 82 =$  |
| 7  | $31 \times 64 =$  |
| 8  | $76 \times 98 =$  |
| 9  | $61 \times 79 =$  |
| 10 | $12 \times 46 =$  |
| 11 | $23 \times 15 =$  |
| 12 | $89 \times 59 =$  |
| 13 | $92 \times 34 =$  |
| 14 | $54 \times 83 =$  |
| 15 | $37 \times 27 =$  |
| 16 | $49 \times 751 =$ |
| 17 | $107 \times 94 =$ |
| 18 | $29 \times 380 =$ |
| 19 | $971 \times 63 =$ |
| 20 | $58 \times 502 =$ |
| 21 | $610 \times 24 =$ |
| 22 | $87 \times 403 =$ |
| 23 | $426 \times 78 =$ |
| 24 | $31 \times 695 =$ |
| 25 | $560 \times 31 =$ |
| 26 | $62 \times 947 =$ |
| 27 | $803 \times 18 =$ |
| 28 | $95 \times 826 =$ |
| 29 | $384 \times 59 =$ |
| 30 | $72 \times 210 =$ |

### Mental Division (4 min)

|    |                     |
|----|---------------------|
| 1  | $4,692 \div 68 =$   |
| 2  | $2,349 \div 29 =$   |
| 3  | $1,656 \div 46 =$   |
| 4  | $1,843 \div 19 =$   |
| 5  | $1,491 \div 71 =$   |
| 6  | $6,630 \div 85 =$   |
| 7  | $2,968 \div 56 =$   |
| 8  | $1,104 \div 23 =$   |
| 9  | $798 \div 42 =$     |
| 10 | $7,708 \div 94 =$   |
| 11 | $4,891 \div 73 =$   |
| 12 | $1,890 \div 54 =$   |
| 13 | $6,298 \div 67 =$   |
| 14 | $1,350 \div 18 =$   |
| 15 | $1,470 \div 35 =$   |
| 16 | $63,000 \div 750 =$ |
| 17 | $46,480 \div 83 =$  |
| 18 | $14,560 \div 416 =$ |
| 19 | $21,744 \div 24 =$  |
| 20 | $25,380 \div 540 =$ |
| 21 | $15,010 \div 19 =$  |
| 22 | $7,644 \div 637 =$  |
| 23 | $57,672 \div 72 =$  |
| 24 | $78,988 \div 806 =$ |
| 25 | $21,479 \div 47 =$  |
| 26 | $10,530 \div 195 =$ |
| 27 | $17,829 \div 63 =$  |
| 28 | $70,528 \div 928 =$ |
| 29 | $11,515 \div 35 =$  |
| 30 | $12,261 \div 201 =$ |

# Soroban Technology Lab

## Mental Calculation Pre-1 Kyu Mental Sums (4 min)

|      |  |       |  |
|------|--|-------|--|
| No.  |  | Name  |  |
| Date |  | Score |  |

| No. | 1   | 2   | 3   | 4   | 5   |
|-----|-----|-----|-----|-----|-----|
| 1   | 290 | 390 | 740 | 390 | 296 |
| 2   | 83  | 518 | 93  | 836 | 360 |
| 3   | 41  | 72  | 287 | 45  | 79  |
| 4   | 602 | 69  | 34  | 184 | 87  |
| 5   | 19  | 283 | 821 | 701 | 143 |
| 6   | 768 | 175 | 15  | 69  | 405 |
| 7   | 375 | 46  | 569 | 27  | 51  |
| Sum |     |     |     |     |     |

| No. | 6   | 7   | 8     | 9      | 10    |
|-----|-----|-----|-------|--------|-------|
| 1   | 415 | 915 | 2,079 | 3,428  | 963   |
| 2   | 748 | 39  | 934   | 9,540  | 5,610 |
| 3   | 81  | 81  | 8,215 | -679   | 834   |
| 4   | 32  | 706 | 186   | 814    | 1,367 |
| 5   | 950 | 478 | 6,507 | 286    | 4,102 |
| 6   | 607 | 64  | 348   | -1,302 | 249   |
| 7   | 26  | 253 | 5,923 | 7,095  | 7,058 |
| Sum |     |     |       |        |       |

| No. | 11    | 12    | 13     | 14    | 15     |
|-----|-------|-------|--------|-------|--------|
| 1   | 2,486 | 1,560 | 452    | 8,694 | 705    |
| 2   | 1,204 | 493   | 8,273  | 2,106 | 9,513  |
| 3   | 318   | 2,176 | -3,064 | 579   | -8,354 |
| 4   | 5,847 | 751   | 698    | 3,967 | 628    |
| 5   | 960   | 8,239 | 125    | 148   | 439    |
| 6   | 7,329 | 374   | -5,740 | 4,051 | -2,041 |
| 7   | 651   | 9,068 | 9,316  | 732   | 1,867  |
| Sum |       |       |        |       |        |

## Answers Mental Calculation Pre-1 Kyu

### Mental Multiplication

|   |              |    |              |    |               |    |               |    |               |
|---|--------------|----|--------------|----|---------------|----|---------------|----|---------------|
| 1 | <u>5,124</u> | 7  | <u>1,984</u> | 13 | <u>3,128</u>  | 19 | <u>61,173</u> | 25 | <u>17,360</u> |
| 2 | <u>1,950</u> | 8  | <u>7,448</u> | 14 | <u>4,482</u>  | 20 | <u>29,116</u> | 26 | <u>58,714</u> |
| 3 | <u>1,065</u> | 9  | <u>4,819</u> | 15 | <u>999</u>    | 21 | <u>14,640</u> | 27 | <u>14,454</u> |
| 4 | <u>1,378</u> | 10 | <u>552</u>   | 16 | <u>36,799</u> | 22 | <u>35,061</u> | 28 | <u>78,470</u> |
| 5 | <u>4,410</u> | 11 | <u>345</u>   | 17 | <u>10,058</u> | 23 | <u>33,228</u> | 29 | <u>22,656</u> |
| 6 | <u>3,526</u> | 12 | <u>5,251</u> | 18 | <u>11,020</u> | 24 | <u>21,545</u> | 30 | <u>15,120</u> |

### Mental Division

|   |           |    |           |    |            |    |            |    |            |
|---|-----------|----|-----------|----|------------|----|------------|----|------------|
| 1 | <u>69</u> | 7  | <u>53</u> | 13 | <u>94</u>  | 19 | <u>906</u> | 25 | <u>457</u> |
| 2 | <u>81</u> | 8  | <u>48</u> | 14 | <u>75</u>  | 20 | <u>47</u>  | 26 | <u>54</u>  |
| 3 | <u>36</u> | 9  | <u>19</u> | 15 | <u>42</u>  | 21 | <u>790</u> | 27 | <u>283</u> |
| 4 | <u>97</u> | 10 | <u>82</u> | 16 | <u>84</u>  | 22 | <u>12</u>  | 28 | <u>76</u>  |
| 5 | <u>21</u> | 11 | <u>67</u> | 17 | <u>560</u> | 23 | <u>801</u> | 29 | <u>329</u> |
| 6 | <u>78</u> | 12 | <u>35</u> | 18 | <u>35</u>  | 24 | <u>98</u>  | 30 | <u>61</u>  |

### Mental Sums

|   |              |    |               |    |               |
|---|--------------|----|---------------|----|---------------|
| 1 | <u>2,178</u> | 6  | <u>2,859</u>  | 11 | <u>18,795</u> |
| 2 | <u>1,553</u> | 7  | <u>2,536</u>  | 12 | <u>22,661</u> |
| 3 | <u>2,559</u> | 8  | <u>24,192</u> | 13 | <u>10,060</u> |
| 4 | <u>2,252</u> | 9  | <u>19,182</u> | 14 | <u>20,277</u> |
| 5 | <u>1,421</u> | 10 | <u>20,183</u> | 15 | <u>2,757</u>  |