

# Soroban Technology Lab

## Mental Calculation Pre-1 Kyu

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

## Mental Multiplication / Mental Division (8 min)

### Mental Multiplication (4 min)

|    |                   |
|----|-------------------|
| 1  | $97 \times 72 =$  |
| 2  | $18 \times 91 =$  |
| 3  | $86 \times 56 =$  |
| 4  | $23 \times 35 =$  |
| 5  | $69 \times 49 =$  |
| 6  | $31 \times 73 =$  |
| 7  | $73 \times 84 =$  |
| 8  | $85 \times 64 =$  |
| 9  | $12 \times 51 =$  |
| 10 | $54 \times 35 =$  |
| 11 | $62 \times 26 =$  |
| 12 | $47 \times 98 =$  |
| 13 | $25 \times 67 =$  |
| 14 | $34 \times 48 =$  |
| 15 | $91 \times 12 =$  |
| 16 | $51 \times 830 =$ |
| 17 | $601 \times 95 =$ |
| 18 | $19 \times 671 =$ |
| 19 | $270 \times 43 =$ |
| 20 | $93 \times 208 =$ |
| 21 | $482 \times 12 =$ |
| 22 | $82 \times 506 =$ |
| 23 | $710 \times 89 =$ |
| 24 | $35 \times 321 =$ |
| 25 | $948 \times 28 =$ |
| 26 | $64 \times 154 =$ |
| 27 | $807 \times 67 =$ |
| 28 | $76 \times 794 =$ |
| 29 | $563 \times 39 =$ |
| 30 | $29 \times 450 =$ |

### Mental Division (4 min)

|    |                     |
|----|---------------------|
| 1  | $4,042 \div 47 =$   |
| 2  | $2,028 \div 52 =$   |
| 3  | $3,956 \div 92 =$   |
| 4  | $976 \div 16 =$     |
| 5  | $6,305 \div 65 =$   |
| 6  | $7,387 \div 83 =$   |
| 7  | $4,602 \div 59 =$   |
| 8  | $2,450 \div 98 =$   |
| 9  | $754 \div 13 =$     |
| 10 | $804 \div 67 =$     |
| 11 | $3,185 \div 35 =$   |
| 12 | $3,075 \div 41 =$   |
| 13 | $1,128 \div 24 =$   |
| 14 | $4,712 \div 76 =$   |
| 15 | $2,856 \div 84 =$   |
| 16 | $60,970 \div 670 =$ |
| 17 | $28,728 \div 57 =$  |
| 18 | $6,000 \div 125 =$  |
| 19 | $30,708 \div 36 =$  |
| 20 | $64,464 \div 816 =$ |
| 21 | $5,880 \div 42 =$   |
| 22 | $19,953 \div 739 =$ |
| 23 | $13,272 \div 21 =$  |
| 24 | $17,304 \div 309 =$ |
| 25 | $44,478 \div 63 =$  |
| 26 | $44,856 \div 504 =$ |
| 27 | $17,876 \div 82 =$  |
| 28 | $14,350 \div 410 =$ |
| 29 | $75,660 \div 78 =$  |
| 30 | $60,480 \div 945 =$ |

# Soroban Technology Lab

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

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

| No. | 1   | 2   | 3   | 4   | 5   |
|-----|-----|-----|-----|-----|-----|
| 1   | 260 | 471 | 48  | 562 | 56  |
| 2   | 18  | 63  | 509 | 103 | 940 |
| 3   | 925 | 95  | 17  | 36  | 78  |
| 4   | 41  | 506 | 690 | 240 | 437 |
| 5   | 587 | 842 | 385 | 79  | 12  |
| 6   | 796 | 37  | 26  | 81  | 891 |
| 7   | 34  | 218 | 743 | 958 | 305 |
| Sum |     |     |     |     |     |

| No. | 6   | 7   | 8     | 9      | 10    |
|-----|-----|-----|-------|--------|-------|
| 1   | 968 | 708 | 5,098 | 8,645  | 160   |
| 2   | 487 | 45  | 369   | 987    | 8,631 |
| 3   | 19  | 62  | 683   | -2,560 | 352   |
| 4   | 541 | 957 | 7,834 | 4,279  | 2,108 |
| 5   | 35  | 16  | 497   | 714    | 7,245 |
| 6   | 73  | 289 | 1,250 | 3,086  | 937   |
| 7   | 206 | 310 | 2,106 | -103   | 4,096 |
| Sum |     |     |       |        |       |

| No. | 11    | 12     | 13    | 14     | 15    |
|-----|-------|--------|-------|--------|-------|
| 1   | 3,081 | 7,984  | 657   | 8,047  | 9,340 |
| 2   | 9,810 | 153    | 5,394 | 5,879  | 6,498 |
| 3   | 258   | -6,201 | 142   | 365    | 261   |
| 4   | 7,923 | 9,368  | 4,051 | -4,238 | 513   |
| 5   | 5,107 | 857    | 2,960 | 601    | 7,642 |
| 6   | 654   | -469   | 873   | 2,796  | 387   |
| 7   | 426   | 5,042  | 9,108 | -154   | 8,059 |
| Sum |       |        |       |        |       |

## Answers Mental Calculation Pre-1 Kyu

### Mental Multiplication

|   |              |    |              |    |               |    |               |    |               |
|---|--------------|----|--------------|----|---------------|----|---------------|----|---------------|
| 1 | <u>6,984</u> | 7  | <u>6,132</u> | 13 | <u>1,675</u>  | 19 | <u>11,610</u> | 25 | <u>26,544</u> |
| 2 | <u>1,638</u> | 8  | <u>5,440</u> | 14 | <u>1,632</u>  | 20 | <u>19,344</u> | 26 | <u>9,856</u>  |
| 3 | <u>4,816</u> | 9  | <u>612</u>   | 15 | <u>1,092</u>  | 21 | <u>5,784</u>  | 27 | <u>54,069</u> |
| 4 | <u>805</u>   | 10 | <u>1,890</u> | 16 | <u>42,330</u> | 22 | <u>41,492</u> | 28 | <u>60,344</u> |
| 5 | <u>3,381</u> | 11 | <u>1,612</u> | 17 | <u>57,095</u> | 23 | <u>63,190</u> | 29 | <u>21,957</u> |
| 6 | <u>2,263</u> | 12 | <u>4,606</u> | 18 | <u>12,749</u> | 24 | <u>11,235</u> | 30 | <u>13,050</u> |

### Mental Division

|   |           |    |           |    |            |    |            |    |            |
|---|-----------|----|-----------|----|------------|----|------------|----|------------|
| 1 | <u>86</u> | 7  | <u>78</u> | 13 | <u>47</u>  | 19 | <u>853</u> | 25 | <u>706</u> |
| 2 | <u>39</u> | 8  | <u>25</u> | 14 | <u>62</u>  | 20 | <u>79</u>  | 26 | <u>89</u>  |
| 3 | <u>43</u> | 9  | <u>58</u> | 15 | <u>34</u>  | 21 | <u>140</u> | 27 | <u>218</u> |
| 4 | <u>61</u> | 10 | <u>12</u> | 16 | <u>91</u>  | 22 | <u>27</u>  | 28 | <u>35</u>  |
| 5 | <u>97</u> | 11 | <u>91</u> | 17 | <u>504</u> | 23 | <u>632</u> | 29 | <u>970</u> |
| 6 | <u>89</u> | 12 | <u>75</u> | 18 | <u>48</u>  | 24 | <u>56</u>  | 30 | <u>64</u>  |

### Mental Sums

|   |              |    |               |    |               |
|---|--------------|----|---------------|----|---------------|
| 1 | <u>2,661</u> | 6  | <u>2,329</u>  | 11 | <u>27,259</u> |
| 2 | <u>2,232</u> | 7  | <u>2,387</u>  | 12 | <u>16,734</u> |
| 3 | <u>2,418</u> | 8  | <u>17,837</u> | 13 | <u>23,185</u> |
| 4 | <u>2,059</u> | 9  | <u>15,048</u> | 14 | <u>13,296</u> |
| 5 | <u>2,719</u> | 10 | <u>23,529</u> | 15 | <u>32,700</u> |