

# Soroban Technology Lab

## Mental Calculation 1 Kyu

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

### Mental Sums (Mental Sums, Mental Multiplication and Mental Division: 12 min in total)

| No. | 1   | 2   | 3    | 4   | 5    |
|-----|-----|-----|------|-----|------|
| 1   | 485 | 408 | 780  | 587 | 856  |
| 2   | 691 | 593 | 513  | 310 | 924  |
| 3   | 270 | 621 | -649 | 942 | 170  |
| 4   | 823 | 179 | -294 | 689 | -308 |
| 5   | 349 | 306 | 652  | 350 | -613 |
| 6   | 167 | 487 | -380 | 472 | 427  |
| 7   | 506 | 825 | -157 | 261 | 598  |
| 8   | 930 | 759 | 801  | 145 | -165 |
| 9   | 842 | 316 | 923  | 803 | -307 |
| 10  | 571 | 240 | 476  | 796 | 249  |
| Sum |     |     |      |     |      |

| No. | 6   | 7    | 8   | 9    | 10  |
|-----|-----|------|-----|------|-----|
| 1   | 401 | 759  | 812 | 521  | 501 |
| 2   | 287 | 183  | 357 | 430  | 782 |
| 3   | 365 | 620  | 604 | 796  | 643 |
| 4   | 951 | -412 | 946 | -862 | 290 |
| 5   | 723 | -874 | 372 | -783 | 589 |
| 6   | 640 | 630  | 908 | 941  | 461 |
| 7   | 809 | 905  | 145 | 350  | 753 |
| 8   | 496 | -546 | 236 | -189 | 307 |
| 9   | 138 | -381 | 780 | -564 | 926 |
| 10  | 275 | 792  | 591 | 207  | 814 |
| Sum |     |      |     |      |     |

## Mental Calculation 1 Kyu Mental Sums

(Mental Sums, Mental Multiplication and Mental Division: 12 min in total)

| No. | 11  | 12  | 13   | 14  | 15   |
|-----|-----|-----|------|-----|------|
| 1   | 871 | 506 | 841  | 961 | 806  |
| 2   | 905 | 917 | 270  | 534 | 973  |
| 3   | 346 | 234 | 953  | 270 | 514  |
| 4   | 270 | 958 | 496  | 802 | 125  |
| 5   | 918 | 210 | -168 | 734 | -640 |
| 6   | 456 | 463 | -275 | 658 | -798 |
| 7   | 263 | 847 | 503  | 193 | 243  |
| 8   | 130 | 609 | -632 | 657 | -510 |
| 9   | 789 | 183 | -819 | 280 | -289 |
| 10  | 542 | 725 | 740  | 419 | 367  |
| Sum |     |     |      |     |      |

| No. | 16  | 17   | 18  | 19   | 20  |
|-----|-----|------|-----|------|-----|
| 1   | 837 | 604  | 614 | 251  | 938 |
| 2   | 209 | 259  | 280 | 897  | 654 |
| 3   | 651 | -173 | 975 | 430  | 201 |
| 4   | 406 | -286 | 683 | -865 | 672 |
| 5   | 574 | 359  | 952 | -271 | 587 |
| 6   | 823 | -407 | 174 | 934  | 109 |
| 7   | 190 | -168 | 301 | 650  | 437 |
| 8   | 412 | 910  | 720 | -749 | 319 |
| 9   | 756 | 847  | 436 | -102 | 546 |
| 10  | 389 | 532  | 598 | 386  | 820 |
| Sum |     |      |     |      |     |

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

## Mental Multiplication / Mental Division

(Mental Sums, Mental Multiplication and Mental Division: 12 min in total)

### Mental Multiplication

|    |                   |
|----|-------------------|
| 21 | $180 \times 58 =$ |
| 22 | $237 \times 73 =$ |
| 23 | $82 \times 314 =$ |
| 24 | $390 \times 87 =$ |
| 25 | $54 \times 479 =$ |
| 26 | $79 \times 109 =$ |
| 27 | $453 \times 61 =$ |
| 28 | $72 \times 205 =$ |
| 29 | $695 \times 15 =$ |
| 30 | $95 \times 950 =$ |
| 31 | $814 \times 69 =$ |
| 32 | $620 \times 97 =$ |
| 33 | $45 \times 596 =$ |
| 34 | $98 \times 485 =$ |
| 35 | $107 \times 36 =$ |
| 36 | $39 \times 180 =$ |
| 37 | $501 \times 64 =$ |
| 38 | $42 \times 823 =$ |
| 39 | $749 \times 28 =$ |
| 40 | $24 \times 740 =$ |
| 41 | $76 \times 571 =$ |
| 42 | $501 \times 46 =$ |
| 43 | $63 \times 802 =$ |
| 44 | $186 \times 47 =$ |
| 45 | $403 \times 63 =$ |
| 46 | $31 \times 201 =$ |
| 47 | $857 \times 12 =$ |
| 48 | $96 \times 734 =$ |
| 49 | $268 \times 92 =$ |
| 50 | $18 \times 308 =$ |

### Mental Division

|    |                     |
|----|---------------------|
| 51 | $2,940 \div 196 =$  |
| 52 | $22,400 \div 25 =$  |
| 53 | $47,250 \div 630 =$ |
| 54 | $40,132 \div 79 =$  |
| 55 | $20,273 \div 97 =$  |
| 56 | $32,269 \div 529 =$ |
| 57 | $6,080 \div 190 =$  |
| 58 | $37,752 \div 39 =$  |
| 59 | $24,998 \div 862 =$ |
| 60 | $20,148 \div 46 =$  |
| 61 | $73,554 \div 78 =$  |
| 62 | $14,688 \div 204 =$ |
| 63 | $9,715 \div 145 =$  |
| 64 | $12,832 \div 32 =$  |
| 65 | $11,776 \div 64 =$  |
| 66 | $71,823 \div 807 =$ |
| 67 | $20,638 \div 607 =$ |
| 68 | $27,336 \div 51 =$  |
| 69 | $9,331 \div 43 =$   |
| 70 | $65,376 \div 908 =$ |
| 71 | $25,232 \div 83 =$  |
| 72 | $14,840 \div 280 =$ |
| 73 | $12,428 \div 956 =$ |
| 74 | $27,860 \div 35 =$  |
| 75 | $48,760 \div 53 =$  |
| 76 | $6,478 \div 158 =$  |
| 77 | $17,420 \div 871 =$ |
| 78 | $48,100 \div 74 =$  |
| 79 | $29,657 \div 631 =$ |
| 80 | $33,810 \div 42 =$  |

## Answers Mental Calculation 1 Kyu

### Mental Sums

|   |              |    |              |    |              |    |              |
|---|--------------|----|--------------|----|--------------|----|--------------|
| 1 | <u>5,634</u> | 6  | <u>5,085</u> | 11 | <u>5,490</u> | 16 | <u>5,247</u> |
| 2 | <u>4,734</u> | 7  | <u>1,676</u> | 12 | <u>5,652</u> | 17 | <u>2,477</u> |
| 3 | <u>2,665</u> | 8  | <u>5,751</u> | 13 | <u>1,909</u> | 18 | <u>5,733</u> |
| 4 | <u>5,355</u> | 9  | <u>847</u>   | 14 | <u>5,508</u> | 19 | <u>1,561</u> |
| 5 | <u>1,831</u> | 10 | <u>6,066</u> | 15 | <u>791</u>   | 20 | <u>5,283</u> |

### Mental Multiplication

|    |               |    |               |    |               |    |               |    |               |
|----|---------------|----|---------------|----|---------------|----|---------------|----|---------------|
| 21 | <u>10,440</u> | 27 | <u>27,633</u> | 33 | <u>26,820</u> | 39 | <u>20,972</u> | 45 | <u>25,389</u> |
| 22 | <u>17,301</u> | 28 | <u>14,760</u> | 34 | <u>47,530</u> | 40 | <u>17,760</u> | 46 | <u>6,231</u>  |
| 23 | <u>25,748</u> | 29 | <u>10,425</u> | 35 | <u>3,852</u>  | 41 | <u>43,396</u> | 47 | <u>10,284</u> |
| 24 | <u>33,930</u> | 30 | <u>90,250</u> | 36 | <u>7,020</u>  | 42 | <u>23,046</u> | 48 | <u>70,464</u> |
| 25 | <u>25,866</u> | 31 | <u>56,166</u> | 37 | <u>32,064</u> | 43 | <u>50,526</u> | 49 | <u>24,656</u> |
| 26 | <u>8,611</u>  | 32 | <u>60,140</u> | 38 | <u>34,566</u> | 44 | <u>8,742</u>  | 50 | <u>5,544</u>  |

### Mental Division

|    |            |    |            |    |            |    |            |    |            |
|----|------------|----|------------|----|------------|----|------------|----|------------|
| 51 | <u>15</u>  | 57 | <u>32</u>  | 63 | <u>67</u>  | 69 | <u>217</u> | 75 | <u>920</u> |
| 52 | <u>896</u> | 58 | <u>968</u> | 64 | <u>401</u> | 70 | <u>72</u>  | 76 | <u>41</u>  |
| 53 | <u>75</u>  | 59 | <u>29</u>  | 65 | <u>184</u> | 71 | <u>304</u> | 77 | <u>20</u>  |
| 54 | <u>508</u> | 60 | <u>438</u> | 66 | <u>89</u>  | 72 | <u>53</u>  | 78 | <u>650</u> |
| 55 | <u>209</u> | 61 | <u>943</u> | 67 | <u>34</u>  | 73 | <u>13</u>  | 79 | <u>47</u>  |
| 56 | <u>61</u>  | 62 | <u>72</u>  | 68 | <u>536</u> | 74 | <u>796</u> | 80 | <u>805</u> |