

# Soroban Technology Lab

## 9 Kyu Multiplication / Division (20 min)

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

### Multiplication (10 min)

|    |                          |
|----|--------------------------|
| 1  | $50 \times 8 =$          |
| 2  | $41 \times 7 =$          |
| 3  | $20 \times 4 =$          |
| 4  | $45 \times 9 =$          |
| 5  | $90 \times 6 =$          |
| 6  | $89 \times 5 =$          |
| 7  | $30 \times 7 =$          |
| 8  | $78 \times 6 =$          |
| 9  | $60 \times 3 =$          |
| 10 | $16 \times 2 =$          |
| 11 | $\cancel{60} \times 8 =$ |
| 12 | $\cancel{13} \times 6 =$ |
| 13 | $\cancel{80} \times 4 =$ |
| 14 | $\cancel{54} \times 9 =$ |
| 15 | $\cancel{90} \times 2 =$ |
| 16 | $\cancel{56} \times 3 =$ |
| 17 | $\cancel{40} \times 5 =$ |
| 18 | $\cancel{72} \times 7 =$ |
| 19 | $\cancel{30} \times 9 =$ |
| 20 | $\cancel{27} \times 5 =$ |

### Division (10 min)

|    |                         |
|----|-------------------------|
| 1  | $280 \div 4 =$          |
| 2  | $279 \div 3 =$          |
| 3  | $160 \div 8 =$          |
| 4  | $180 \div 5 =$          |
| 5  | $120 \div 2 =$          |
| 6  | $135 \div 9 =$          |
| 7  | $480 \div 6 =$          |
| 8  | $406 \div 7 =$          |
| 9  | $320 \div 8 =$          |
| 10 | $648 \div 9 =$          |
| 11 | $\cancel{480} \div 8 =$ |
| 12 | $\cancel{162} \div 6 =$ |
| 13 | $\cancel{450} \div 5 =$ |
| 14 | $\cancel{112} \div 7 =$ |
| 15 | $\cancel{240} \div 6 =$ |
| 16 | $\cancel{621} \div 9 =$ |
| 17 | $\cancel{240} \div 3 =$ |
| 18 | $\cancel{216} \div 4 =$ |
| 19 | $\cancel{490} \div 7 =$ |
| 20 | $\cancel{62} \div 2 =$  |

# Soroban Technology Lab

9 Kyu Sums (8 min)

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

| No. | 1   | 2   | 3   | 4   | 5   |
|-----|-----|-----|-----|-----|-----|
| 1   | ≠ 5 | ≠ 3 | ≠ 9 | ≠ 5 | ≠ 2 |
| 2   | 7   | 64  | 80  | 38  | 30  |
| 3   | 9   | 2   | -65 | 10  | -7  |
| 4   | 64  | 10  | 4   | 6   | 8   |
| 5   | /   | 8   | 3   | 29  | 94  |
| 6   | 83  | 97  | -21 | 7   | 16  |
| 7   | 20  | 5   | 7   | 4   | -5  |
| Sum |     |     |     |     |     |

| No. | 6    | 7    | 8   | 9    | 10  |
|-----|------|------|-----|------|-----|
| 1   | ≠ 50 | ≠ 86 | ≠ 9 | ≠ 43 | ≠ 5 |
| 2   | 4    | /    | 7   | /    | 40  |
| 3   | 17   | 53   | -15 | 2    | 6   |
| 4   | 8    | 4    | 4   | 5    | -9  |
| 5   | 3    | 90   | 86  | 7    | 71  |
| 6   | 69   | 7    | -30 | 60   | 82  |
| 7   | 2    | 2    | 2   | 89   | -3  |
| Sum |      |      |     |      |     |

## Answers 9 Kyu

### Multiplication

|   |            |    |            |    |             |    |             |
|---|------------|----|------------|----|-------------|----|-------------|
| 1 | <u>400</u> | 6  | <u>445</u> | 11 | <u>¥480</u> | 16 | <u>¥168</u> |
| 2 | <u>287</u> | 7  | <u>210</u> | 12 | <u>¥78</u>  | 17 | <u>¥200</u> |
| 3 | <u>80</u>  | 8  | <u>468</u> | 13 | <u>¥320</u> | 18 | <u>¥504</u> |
| 4 | <u>405</u> | 9  | <u>180</u> | 14 | <u>¥486</u> | 19 | <u>¥270</u> |
| 5 | <u>540</u> | 10 | <u>32</u>  | 15 | <u>¥180</u> | 20 | <u>¥135</u> |

### Division

|   |           |    |           |    |            |    |            |
|---|-----------|----|-----------|----|------------|----|------------|
| 1 | <u>70</u> | 6  | <u>15</u> | 11 | <u>¥60</u> | 16 | <u>¥69</u> |
| 2 | <u>93</u> | 7  | <u>80</u> | 12 | <u>¥27</u> | 17 | <u>¥80</u> |
| 3 | <u>20</u> | 8  | <u>58</u> | 13 | <u>¥90</u> | 18 | <u>¥54</u> |
| 4 | <u>36</u> | 9  | <u>40</u> | 14 | <u>¥16</u> | 19 | <u>¥70</u> |
| 5 | <u>60</u> | 10 | <u>72</u> | 15 | <u>¥40</u> | 20 | <u>¥31</u> |

### Sums

|   |             |    |             |
|---|-------------|----|-------------|
| 1 | <u>¥189</u> | 6  | <u>¥153</u> |
| 2 | <u>¥189</u> | 7  | <u>¥243</u> |
| 3 | <u>¥17</u>  | 8  | <u>¥63</u>  |
| 4 | <u>¥99</u>  | 9  | <u>¥207</u> |
| 5 | <u>¥138</u> | 10 | <u>¥192</u> |