Soroban Technology Lab

Pre-3 Kyu

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

Multiplication (7 min)

| | |
|---|---|
| 1 | 9.07 × 4,667 = |
| 2 | 4,432 × 7.49 = |
| 3 | 6.135 × 337 = |
| 4 | 83,560 × 11 = |
| 5 | 9,601 × 225 = |
| 6 | 87.7 × 45.72 = |
| 7 | 46 × 29,238 = |

| | |
|---|---|
| 8 | 514 × 8,290 = |
| 9 | 3,058 × 665 = |
| 10 | 7,940 × 90.1 = |
| 11 | 69 × 54.016 = |
| 12 | 1.93 × 3,108 = |
| 13 | 22,569 × 80 = |
| 14 | 70.88 × 78.3 = |
| 15 | 212 × 5,904 = |

Division (7 min)

| | |
|---|---|
| 1 | 16,955.6 ÷ 43.7 = |
| 2 | 62,260.8 ÷ 68 = |
| 3 | 250 ÷ 3.125 = |
| 4 | 326,152 ÷ 472 = |
| 5 | 218,394 ÷ 22 = |
| 6 | 56,474 ÷ 374 = |
| 7 | 1,723.68 ÷ 228 = |

| | |
|---|---|
| 8 | 1,402.15 ÷ 9.67 = |
| 9 | 370,440 ÷ 735 = |
| 10 | 282,120 ÷ 4,702 = |
| 11 | 168,264 ÷ 228 = |
| 12 | 1,789.78 ÷ 821 = |
| 13 | 314,064 ÷ 8,724 = |
| 14 | 9,384 ÷ 4.6 = |
| 15 | 10,260.4 ÷ 90.8 = |

Mental Calculation (3 min)

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| 20 | 35 | 39 | 90 | 40 |
| 41 | 17 | 67 | 73 | 58 |
| 39 | 86 | 15 | 51 | 62 |
| 87 | 20 | 80 | 84 | 79 |
| 65 | 94 | 42 | 26 | 31 |
| | | | | |

| 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| 76 | 19 | 83 | 47 | 38 |
| 45 | 23 | 47 | 86 | 49 |
| 32 | 84 | 59 | 91 | 26 |
| 19 | 60 | 21 | 30 | 70 |
| 80 | 75 | 60 | 52 | 15 |
| | | | | |

| 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|
| 59 | 53 | 69 | 13 | 47 |
| 87 | 10 | 50 | 49 | 96 |
| 42 | 49 | 87 | 65 | 53 |
| 36 | 82 | 43 | 78 | 12 |
| 10 | 67 | 21 | 20 | 80 |
| | | | | |

Soroban Technology Lab

Pre-3 Kyu Sums (7 min)

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

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| 84,913 | 69,340 | 561 | 5,480 | 961 |
| 2,056 | −785 | 3,247 | 89,147 | 20,574 |
| 68,497 | 32,641 | 49,870 | −7,513 | 32,851 |
| 2,385 | 9,512 | 36,518 | −50,498 | 79,386 |
| 16,430 | −68,970 | 9,026 | 9,536 | 4,890 |
| 1,059 | 4,803 | 8,542 | −107 | 6,432 |
| 872 | −2,517 | 13,709 | 26,384 | 7,510 |
| | | | | |

| 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| 96,438 | 62,057 | 18,537 | 60,983 | 21,039 |
| 5,721 | 98,423 | −6,029 | 5,421 | −847 |
| 2,035 | 2,139 | 4,673 | 2,975 | 20,675 |
| 60,147 | 5,684 | −849 | 78,136 | −6,914 |
| 984 | 7,850 | −10,256 | 26,045 | 8,537 |
| 8,756 | 162 | 2,489 | 473 | −32,609 |
| 20,391 | 70,934 | 35,701 | 1,908 | 1,845 |
| | | | | |

| 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|
| 279 | 1,456 | 65,390 | 84,709 | 70,413 |
| 4,531 | 9,782 | 47,981 | 15,283 | −29,865 |
| 1,680 | 83,507 | −537 | 8,760 | −5,614 |
| 97,045 | 469 | −1,908 | 914 | 7,039 |
| 6,328 | 30,612 | 2,463 | 3,285 | 98,206 |
| 69,143 | 3,150 | −16,507 | 9,732 | 1,435 |
| 80,572 | 84,279 | 2,894 | 50,461 | −827 |
| | | | | |

# Answers  Pre-3 Kyu

## Multiplication

| | | | | | |
|---|---|---|---|---|---|
| 1 | 42,329.69 | 6 | 4,009.644 | 11 | 3,727.104 |
| 2 | 33,195.68 | 7 | 1,344,948 | 12 | 5,998.44 |
| 3 | 2,067.495 | 8 | 4,261,060 | 13 | 1,805,520 |
| 4 | 919,160 | 9 | 2,033,570 | 14 | 5,549.904 |
| 5 | 2,160,225 | 10 | 715,394 | 15 | 1,251,648 |

## Division

| | | | | | |
|---|---|---|---|---|---|
| 1 | 388 | 6 | 151 | 11 | 738 |
| 2 | 915.6 | 7 | 7.56 | 12 | 2.18 |
| 3 | 80 | 8 | 145 | 13 | 36 |
| 4 | 691 | 9 | 504 | 14 | 2,040 |
| 5 | 9,927 | 10 | 60 | 15 | 113 |

## Sums

| | | | | | |
|---|---|---|---|---|---|
| 1 | 176,212 | 6 | 194,472 | 11 | 259,578 |
| 2 | 44,024 | 7 | 247,249 | 12 | 213,255 |
| 3 | 121,473 | 8 | 44,266 | 13 | 99,776 |
| 4 | 72,429 | 9 | 175,941 | 14 | 173,144 |
| 5 | 152,604 | 10 | 11,726 | 15 | 140,787 |

## Mental Calculation

| | | | | | |
|---|---|---|---|---|---|
| 1 | 252 | 6 | 252 | 11 | 234 |
| 2 | 252 | 7 | 261 | 12 | 261 |
| 3 | 243 | 8 | 270 | 13 | 270 |
| 4 | 324 | 9 | 306 | 14 | 225 |
| 5 | 270 | 10 | 198 | 15 | 288 |