

# Soroban Technology Lab

## 3º kyu Multiplicação / Divisão (tempo: 20 min)

|      |  |        |  |
|------|--|--------|--|
| N.º  |  | Nome   |  |
| Data |  | Pontos |  |

### Multiplicação (tempo: 10 min)

(Atenção) Arredondar para 3 casas decimais

(Atenção) Arredondar para ienes inteiros

|    |                         |    |                             |
|----|-------------------------|----|-----------------------------|
| 1  | $48,936 \times 31 =$    | 11 | $\yen 1,036 \times 286 =$   |
| 2  | $0.0267 \times 0.268 =$ | 12 | $\yen 67,905 \times 7.8 =$  |
| 3  | $9,278 \times 906 =$    | 13 | $\yen 2,384 \times 0.059 =$ |
| 4  | $5,961 \times 713 =$    | 14 | $\yen 5,217 \times 4.91 =$  |
| 5  | $152 \times 4,230 =$    | 15 | $\yen 365 \times 5,062 =$   |
| 6  | $8,340 \times 695 =$    | 16 | $\yen 4,018 \times 0.874 =$ |
| 7  | $201.4 \times 57.4 =$   | 17 | $\yen 7,842 \times 310 =$   |
| 8  | $0.6709 \times 0.087 =$ | 18 | $\yen 4,769 \times 0.623 =$ |
| 9  | $7,453 \times 15.2 =$   | 19 | $\yen 8,591 \times 145 =$   |
| 10 | $3,185 \times 84.9 =$   | 20 | $\yen 9,230 \times 937 =$   |

### Divisão (tempo: 10 min)

(Atenção) Arredondar para 3 casas decimais

(Atenção) Arredondar para ienes inteiros

|    |                         |    |                           |
|----|-------------------------|----|---------------------------|
| 1  | $723,216 \div 912 =$    | 11 | $\yen 13 \div 0.125 =$    |
| 2  | $0.44402 \div 0.298 =$  | 12 | $\yen 19 \div 0.046 =$    |
| 3  | $0.031155 \div 0.067 =$ | 13 | $\yen 562,653 \div 63 =$  |
| 4  | $798,168 \div 84 =$     | 14 | $\yen 84,802 \div 218 =$  |
| 5  | $124,992 \div 576 =$    | 15 | $\yen 3,198 \div 4.92 =$  |
| 6  | $4,783.01 \div 784.1 =$ | 16 | $\yen 399,438 \div 569 =$ |
| 7  | $12.75 \div 453 =$      | 17 | $\yen 1,951 \div 78.04 =$ |
| 8  | $518,320 \div 620 =$    | 18 | $\yen 672 \div 0.875 =$   |
| 9  | $78.84 \div 13.5 =$     | 19 | $\yen 887,339 \div 937 =$ |
| 10 | $114,330 \div 309 =$    | 20 | $\yen 163,060 \div 310 =$ |

# Soroban Technology Lab

3º kyu Somas (tempo: 8 min)

|      |  |        |  |
|------|--|--------|--|
| N.º  |  | Nome   |  |
| Data |  | Pontos |  |

| N.º   | 1        | 2       | 3        | 4        | 5         |
|-------|----------|---------|----------|----------|-----------|
| 1     | ¥ 40,751 | ¥ 8,032 | ¥ 8,269  | ¥ 25,137 | ¥ 483,072 |
| 2     | 82,346   | 16,897  | 154      | 304,629  | 1,659     |
| 3     | 901,268  | 467,105 | 370,586  | 9,713    | -30,487   |
| 4     | 9,054    | 281     | -4,073   | 196,204  | -123      |
| 5     | 187      | 592,403 | -29,348  | 758      | 619,405   |
| 6     | 598,703  | 35,219  | 182,094  | 8,934    | 826,510   |
| 7     | 614,590  | 9,648   | 53,761   | 510,872  | 98,743    |
| 8     | 7,632    | 703,569 | 605,412  | 631,095  | 5,976     |
| 9     | 23,917   | 41,372  | -736,905 | 82,546   | -204,869  |
| 10    | 365,428  | 684,750 | -91,827  | 47,860   | -72,351   |
| Total |          |         |          |          |           |

| N.º   | 6         | 7         | 8         | 9        | 10      |
|-------|-----------|-----------|-----------|----------|---------|
| 1     | ¥ 924,056 | ¥ 872,046 | ¥ 980,267 | ¥ 2,859  | ¥ 604   |
| 2     | 70,913    | 3,510     | 4,513     | 307,164  | 73,582  |
| 3     | 5,638     | 529,308   | 8,346     | -278,013 | 2,697   |
| 4     | 284       | -48,059   | 259,801   | -15,390  | 9,851   |
| 5     | 31,590    | -6,147    | 527       | 46,925   | 107,294 |
| 6     | 8,752     | 95,681    | 35,469    | 748      | 86,325  |
| 7     | 402,683   | 14,963    | 702,138   | 534,162  | 390,478 |
| 8     | 149,307   | 387,291   | 91,074    | -61,207  | 14,063  |
| 9     | 67,129    | -732      | 16,750    | -9,586   | 521,986 |
| 10    | 716,845   | -260,475  | 623,984   | 890,734  | 435,710 |
| Total |           |           |           |          |         |

## Soroban Technology Lab

3º kyu Cálculo de notas (tempo: 8 min)

|      |  |        |  |
|------|--|--------|--|
| N.º  |  | Nome   |  |
| Data |  | Pontos |  |

|          |     |     |     |     |      |
|----------|-----|-----|-----|-----|------|
| p. 1-10  | (1) | (2) | (3) | (4) | (5)  |
| p. 11-20 | (6) | (7) | (8) | (9) | (10) |

| 3º kyu |    | Cálculo de notas |              |
|--------|----|------------------|--------------|
|        |    | (tempo: 8 min)   |              |
|        |    | 2                | 1            |
| (1)    | 24 | 19,624           | (1) 24 6,150 |
| (2)    | 24 | 369              | (2) 24 9,471 |
| (3)    | 24 | 56,034           | (3) 24 4,798 |
| (4)    | 24 | 867              | (4) 24 6,150 |
| (5)    | 24 | 358              | (5) 24 5,419 |
|        |    | 3                |              |
| (1)    | 24 | 3,817            |              |
| (2)    | 24 | 4,853            |              |
| (3)    | 24 | 801              |              |
| (4)    | 24 | 382              |              |
| (5)    | 24 | 7,632            |              |

|     |                 |     |                 |
|-----|-----------------|-----|-----------------|
| 6   |                 | 4   |                 |
| (1) | ¥ <u>52,740</u> | (1) | ¥ <u>703</u>    |
| (2) | ¥ <u>2,648</u>  | (2) | ¥ <u>50,271</u> |
| (3) | ¥ <u>68,290</u> | (3) | ¥ <u>1,273</u>  |
| (4) | ¥ <u>428</u>    | (4) | ¥ <u>7,930</u>  |
| (5) | ¥ <u>69,307</u> | (5) | ¥ <u>6,740</u>  |
| 7   |                 | 5   |                 |
| (1) | ¥ <u>4,528</u>  | (1) | ¥ <u>20,369</u> |
| (2) | ¥ <u>752</u>    | (2) | ¥ <u>63,509</u> |
| (3) | ¥ <u>356</u>    | (3) | ¥ <u>914</u>    |
| (4) | ¥ <u>58,649</u> | (4) | ¥ <u>2,713</u>  |
| (5) | ¥ <u>14,289</u> | (5) | ¥ <u>452</u>    |

|                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>10</div> <div> <div>(1)</div> <div>¥</div> <div>875</div> </div> </div> <div> <div>(2)</div> <div>¥</div> <div>186</div> </div> <div> <div>(3)</div> <div>¥</div> <div>5,162</div> </div> <div> <div>(4)</div> <div>¥</div> <div>95,071</div> </div> <div> <div>(5)</div> <div>¥</div> <div>98,071</div> </div> | <div> <div>8</div> <div> <div>(1)</div> <div>¥</div> <div>8,419</div> </div> </div> <div> <div>(2)</div> <div>¥</div> <div>21,097</div> </div> <div> <div>(3)</div> <div>¥</div> <div>7,435</div> </div> <div> <div>(4)</div> <div>¥</div> <div>43,295</div> </div> <div> <div>(5)</div> <div>¥</div> <div>2,165</div> </div> |
| <div> <div>As páginas seguintes trazem os exercícios (6)–(10).</div> </div>                                                                                                                                                                                                                                                | <div> <div>9</div> <div> <div>(1)</div> <div>¥</div> <div>936</div> </div> </div> <div> <div>(2)</div> <div>¥</div> <div>8,430</div> </div> <div> <div>(3)</div> <div>¥</div> <div>29,780</div> </div> <div> <div>(4)</div> <div>¥</div> <div>1,604</div> </div> <div> <div>(5)</div> <div>¥</div> <div>803</div> </div>      |

|     |           |     |           |
|-----|-----------|-----|-----------|
| 13  |           | 11  |           |
| (1) | 2/        | (1) | 2/ 1,490  |
| (2) | 2/ 1,547  | (2) | 2/ 40,218 |
| (3) | 2/ 4,015  | (3) | 2/ 37,496 |
| (4) | 2/ 8,526  | (4) | 2/ 3,479  |
| (5) | 2/ 25,187 | (5) | 2/ 4,653  |
| 14  |           | 12  |           |
| (1) | 2/ 10,473 | (1) | 2/ 82,763 |
| (2) | 2/ 316    | (2) | 2/ 5,973  |
| (3) | 2/ 60,572 | (3) | 2/ 5,132  |
| (4) | 2/ 96,042 | (4) | 2/ 631    |
| (5) | 2/ 6,712  | (5) | 2/ 1,420  |

|     |        |     |        |
|-----|--------|-----|--------|
| 17  |        | 15  |        |
| (1) | 2/     | (1) | 2/     |
|     | 4,062  |     | 59,826 |
| (2) | 2/     | (2) | 2/     |
|     | 932    |     | 2,085  |
| (3) | 2/     | (3) | 2/     |
|     | 253    |     | 1,064  |
| (4) | 2/     | (4) | 2/     |
|     | 50,317 |     | 7,801  |
| (5) | 2/     | (5) | 2/     |
|     | 8,975  |     | 93,640 |
| 18  |        | 16  |        |
| (1) | 2/     | (1) | 2/     |
|     | 938    |     | 605    |
| (2) | 2/     | (2) | 2/     |
|     | 8,764  |     | 609    |
| (3) | 2/     | (3) | 2/     |
|     | 928    |     | 789    |
| (4) | 2/     | (4) | 2/     |
|     | 278    |     | 4,593  |
| (5) | 2/     | (5) | 2/     |
|     | 591    |     | 308    |

|     |                    |
|-----|--------------------|
| 19  |                    |
| (1) | $\frac{2}{7,549}$  |
| (2) | $\frac{2}{69,450}$ |
| (3) | $\frac{2}{8,341}$  |
| (4) | $\frac{2}{82,965}$ |
| (5) | $\frac{2}{70,286}$ |
| 20  |                    |
| (1) | $\frac{2}{271}$    |
| (2) | $\frac{2}{73,182}$ |
| (3) | $\frac{2}{89,607}$ |
| (4) | $\frac{2}{140}$    |
| (5) | $\frac{2}{934}$    |

## Gabarito 3º kyu

### Multiplicação

|   |                  |    |                  |    |                   |    |                   |
|---|------------------|----|------------------|----|-------------------|----|-------------------|
| 1 | <u>1,517,016</u> | 6  | <u>5,796,300</u> | 11 | <u>¥296,296</u>   | 16 | <u>¥3,512</u>     |
| 2 | <u>0.007</u>     | 7  | <u>11,560.36</u> | 12 | <u>¥529,659</u>   | 17 | <u>¥2,431,020</u> |
| 3 | <u>8,405,868</u> | 8  | <u>0.058</u>     | 13 | <u>¥141</u>       | 18 | <u>¥2,971</u>     |
| 4 | <u>4,250,193</u> | 9  | <u>113,285.6</u> | 14 | <u>¥25,615</u>    | 19 | <u>¥1,245,695</u> |
| 5 | <u>642,960</u>   | 10 | <u>270,406.5</u> | 15 | <u>¥1,847,630</u> | 20 | <u>¥8,648,510</u> |

### Divisão

|   |              |    |              |    |               |    |             |
|---|--------------|----|--------------|----|---------------|----|-------------|
| 1 | <u>793</u>   | 6  | <u>6.1</u>   | 11 | <u>¥104</u>   | 16 | <u>¥702</u> |
| 2 | <u>1.49</u>  | 7  | <u>0.028</u> | 12 | <u>¥413</u>   | 17 | <u>¥25</u>  |
| 3 | <u>0.465</u> | 8  | <u>836</u>   | 13 | <u>¥8,931</u> | 18 | <u>¥768</u> |
| 4 | <u>9,502</u> | 9  | <u>5.84</u>  | 14 | <u>¥389</u>   | 19 | <u>¥947</u> |
| 5 | <u>217</u>   | 10 | <u>370</u>   | 15 | <u>¥650</u>   | 20 | <u>¥526</u> |

### Somas

|   |                   |    |                   |
|---|-------------------|----|-------------------|
| 1 | <u>¥2,643,876</u> | 6  | <u>¥2,377,197</u> |
| 2 | <u>¥2,559,276</u> | 7  | <u>¥1,587,386</u> |
| 3 | <u>¥358,123</u>   | 8  | <u>¥2,722,869</u> |
| 4 | <u>¥1,817,748</u> | 9  | <u>¥1,418,396</u> |
| 5 | <u>¥1,727,535</u> | 10 | <u>¥1,642,590</u> |

### Cálculo de notas

|   |                 |    |                 |
|---|-----------------|----|-----------------|
| 1 | <u>¥118,161</u> | 6  | <u>¥171,135</u> |
| 2 | <u>¥161,586</u> | 7  | <u>¥203,076</u> |
| 3 | <u>¥174,843</u> | 8  | <u>¥208,197</u> |
| 4 | <u>¥217,089</u> | 9  | <u>¥254,772</u> |
| 5 | <u>¥205,236</u> | 10 | <u>¥212,706</u> |