

## Soroban Technology Lab

### 2º 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  | $82,543 \times 4,271 =$  | 11 | $\yen 78,056 \times 6,250 =$  |
| 2  | $0.0754 \times 93.685 =$ | 12 | $\yen 84,267 \times 19.87 =$  |
| 3  | $16,390 \times 3,506 =$  | 13 | $\yen 59,063 \times 5,349 =$  |
| 4  | $3.1846 \times 0.6109 =$ | 14 | $\yen 12,405 \times 981.4 =$  |
| 5  | $0.51078 \times 57.48 =$ | 15 | $\yen 4,139 \times 70,958 =$  |
| 6  | $46,091 \times 76.24 =$  | 16 | $\yen 68,310 \times 3,726 =$  |
| 7  | $90,237 \times 8,943 =$  | 17 | $\yen 29,378 \times 0.4715 =$ |
| 8  | $673,812 \times 0.052 =$ | 18 | $\yen 950,641 \times 862 =$   |
| 9  | $72,569 \times 1,830 =$  | 19 | $\yen 35,172 \times 0.2063 =$ |
| 10 | $24,985 \times 2,197 =$  | 20 | $\yen 98,274 \times 0.0431 =$ |

#### Divisão (tempo: 10 min)

(Atenção) Arredondar para 3 casas decimais

(Atenção) Arredondar para ienes inteiros

|    |                            |    |                                |
|----|----------------------------|----|--------------------------------|
| 1  | $4,136.2932 \div 869.7 =$  | 11 | $\yen 15,110,160 \div 1,670 =$ |
| 2  | $0.1152404 \div 0.0138 =$  | 12 | $\yen 37,426,922 \div 6,023 =$ |
| 3  | $34,322.933 \div 4,389 =$  | 13 | $\yen 10,437 \div 0.568 =$     |
| 4  | $0.4216135 \div 0.2563 =$  | 14 | $\yen 3,546,182 \div 918.7 =$  |
| 5  | $31,059,468 \div 5,412 =$  | 15 | $\yen 4,669 \div 0.8974 =$     |
| 6  | $5,795,640 \div 180 =$     | 16 | $\yen 358,734 \div 45.32 =$    |
| 7  | $82,636,918 \div 9,074 =$  | 17 | $\yen 11,313,081 \div 2,509 =$ |
| 8  | $374.66442 \div 6.201 =$   | 18 | $\yen 8,692,057 \div 3,481 =$  |
| 9  | $22,426,335 \div 79,245 =$ | 19 | $\yen 57,351,896 \div 7,496 =$ |
| 10 | $25,931,424 \div 3,756 =$  | 20 | $\yen 26 \div 0.03125 =$       |

# Soroban Technology Lab

2º kyu Somas (tempo: 8 min)

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

| N.º   | 1            | 2          | 3            | 4          |
|-------|--------------|------------|--------------|------------|
| 1     | ¥ 91,052,643 | ¥ 293,807  | ¥ 95,620,347 | ¥ 814,256  |
| 2     | 3,597,062    | 4,159,672  | 69,215,430   | 9,681,407  |
| 3     | 80,371,459   | 12,364,098 | 2,931,678    | 37,298     |
| 4     | 894,206      | 5,410,237  | -42,967      | 705,389    |
| 5     | 26,731,850   | 81,645     | -758,041     | 67,590,142 |
| 6     | 7,208,493    | 68,504,293 | 1,529,804    | 12,486,093 |
| 7     | 146,728      | 79,615,380 | 867,513      | 3,169,527  |
| 8     | 52,910,387   | 3,072,146  | 36,490,281   | 58,340,761 |
| 9     | 4,689,175    | 50,893,764 | -8,103,752   | 4,952,630  |
| 10    | 63,541       | 927,518    | -57,084,396  | 25,073,814 |
| Total |              |            |              |            |

| N.º   | 5            | 6            | 7            |
|-------|--------------|--------------|--------------|
| 1     | ¥ 63,275,940 | ¥ 49,680,152 | ¥ 48,531,620 |
| 2     | 934,568      | 6,741,928    | 98,416       |
| 3     | -10,862,397  | 307,645      | 8,379,045    |
| 4     | -25,081,476  | 10,894,273   | -5,068,792   |
| 5     | 319,720      | 71,463,508   | -6,415,309   |
| 6     | 7,123,648    | 52,976       | 27,903,164   |
| 7     | 19,785       | 3,265,091    | 132,785      |
| 8     | 52,496,031   | 8,157,364    | 70,654,291   |
| 9     | -8,540,192   | 25,031,849   | -32,840,957  |
| 10    | -4,708,653   | 928,730      | -726,831     |
| Total |              |              |              |

| N.º   | 8          | 9            | 10          |
|-------|------------|--------------|-------------|
| 1     | ¥ 384,279  | ¥ 85,637,104 | ¥ 4,825,673 |
| 2     | 41,869,035 | 9,078,231    | 7,593,048   |
| 3     | 732,164    | 326,485      | 69,047,312  |
| 4     | 13,948,270 | -761,924     | 3,765,920   |
| 5     | 67,250,318 | -50,389      | 58,601,437  |
| 6     | 5,167,904  | 20,475,168   | 14,952      |
| 7     | 9,506,713  | 1,593,072    | 86,902,731  |
| 8     | 50,694,821 | 4,986,753    | 189,564     |
| 9     | 29,587     | -62,109,547  | 271,805     |
| 10    | 8,053,642  | -96,248,310  | 91,430,286  |
| Total |            |              |             |

## Soroban Technology Lab

2º 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) |

| 2º kyu |    | Cálculo de notas |  | (tempo: 8 min) |              |
|--------|----|------------------|--|----------------|--------------|
| 2      |    | 3                |  | 1              |              |
| (1)    | 2/ | / 6,749          |  | (1)            | 2/ 948,652   |
| (2)    | 2/ | 89,324           |  | (2)            | 2/ 3,157     |
| (3)    | 2/ | 3,048,597        |  | (3)            | 2/ 60,231    |
| (4)    | 2/ | 7,928            |  | (4)            | 2/ 2,741,035 |
| (5)    | 2/ | 210,894          |  | (5)            | 2/ 957,320   |

|       |           |       |           |
|-------|-----------|-------|-----------|
| 6     |           | 4     |           |
| (1) ¥ | 4,861,702 | (1) ¥ | 791,250   |
| (2) ¥ | 6,947,328 | (2) ¥ | 70,695    |
| (3) ¥ | 4,951,738 | (3) ¥ | 7,054     |
| (4) ¥ | 135,746   | (4) ¥ | 58,769    |
| (5) ¥ | 734,910   | (5) ¥ | 6,895,042 |
| 7     |           | 5     |           |
| (1) ¥ | 30,498    | (1) ¥ | 6,207,534 |
| (2) ¥ | 461,702   | (2) ¥ | 2,815,037 |
| (3) ¥ | 624,803   | (3) ¥ | 104,267   |
| (4) ¥ | 9,083,671 | (4) ¥ | 420,518   |
| (5) ¥ | 6,734     | (5) ¥ | 42,685    |

|                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>10</div> <div> <div>(1) ¥</div> <div>389,075</div> </div> <div> <div>(2) ¥</div> <div>198,276</div> </div> <div> <div>(3) ¥</div> <div>815,629</div> </div> <div> <div>(4) ¥</div> <div>3,679,851</div> </div> <div> <div>(5) ¥</div> <div>1,329,578</div> </div> | <div>8</div> <div> <div>(1) ¥</div> <div>5,316</div> </div> <div> <div>(2) ¥</div> <div>9,503,468</div> </div> <div> <div>(3) ¥</div> <div>96,175</div> </div> <div> <div>(4) ¥</div> <div>65,204</div> </div> <div> <div>(5) ¥</div> <div>5,672,901</div> </div>       |
| <div> <div>As páginas seguintes trazem os exercícios (6)–(10).</div> </div>                                                                                                                                                                                            | <div>9</div> <div> <div>(1) ¥</div> <div>8,654,123</div> </div> <div> <div>(2) ¥</div> <div>650,149</div> </div> <div> <div>(3) ¥</div> <div>2,738,490</div> </div> <div> <div>(4) ¥</div> <div>892,340</div> </div> <div> <div>(5) ¥</div> <div>3,408,156</div> </div> |

|           |   |           |   |
|-----------|---|-----------|---|
| 13        |   | 11        |   |
| (1)       | ¥ | (1)       | ¥ |
| 7,186,953 |   | 34,258    |   |
| (2)       | ¥ | (2)       | ¥ |
| 38,690    |   | 86,279    |   |
| (3)       | ¥ | (3)       | ¥ |
| 864,917   |   | 7,039,462 |   |
| (4)       | ¥ | (4)       | ¥ |
| 184,639   |   | 504,298   |   |
| (5)       | ¥ | (5)       | ¥ |
| 280,461   |   | 879,502   |   |
| 14        |   | 12        |   |
| (1)       | ¥ | (1)       | ¥ |
| 4,653,270 |   | 860,137   |   |
| (2)       | ¥ | (2)       | ¥ |
| 4,231     |   | 6,840,157 |   |
| (3)       | ¥ | (3)       | ¥ |
| 3,851     |   | 1,783,250 |   |
| (4)       | ¥ | (4)       | ¥ |
| 7,650,312 |   | 20,573    |   |
| (5)       | ¥ | (5)       | ¥ |
| 504,723   |   | 1,956,843 |   |

|     |             |     |             |
|-----|-------------|-----|-------------|
| 17  |             | 15  |             |
| (1) | ¥ 98,7 / 6  | (1) | ¥ 1,079,428 |
| (2) | ¥ 1,396,805 | (2) | ¥ 5,082,149 |
| (3) | ¥ 9,425,183 | (3) | ¥ 41,638    |
| (4) | ¥ 8,539     | (4) | ¥ 9,716,428 |
| (5) | ¥ 1,825     | (5) | ¥ 69,135    |
| 18  |             | 16  |             |
| (1) | ¥ 920,435   | (1) | ¥ 241,309   |
| (2) | ¥ 275,413   | (2) | ¥ 3,620,754 |
| (3) | ¥ 6,908,374 | (3) | ¥ 57,204    |
| (4) | ¥ 67,280    | (4) | ¥ 4,971,065 |
| (5) | ¥ 9,172,634 | (5) | ¥ 48,076    |

## 2º kyu Cálculo de notas (tempo: 8 min)

19

(1) ~~2~~ 6,704,582

(2) 967,328

(3)  $\text{¥} 290,561$

(4) 345,126

(5)  $3, 7, 20, 45, 9$

20

|     |   |       |
|-----|---|-------|
| (1) | ¥ | 5,691 |
|-----|---|-------|

(2) 701,594

(3) ~~7~~ 576,029

(4)  $\neq$  1,493,807

(5) ~~2~~ 7,613,980

## Gabarito 2º kyu

### Multiplicação

|   |                    |    |                     |    |                     |    |                     |
|---|--------------------|----|---------------------|----|---------------------|----|---------------------|
| 1 | <u>352,541,153</u> | 6  | <u>3,513,977.84</u> | 11 | <u>¥487,850,000</u> | 16 | <u>¥254,523,060</u> |
| 2 | <u>7.064</u>       | 7  | <u>806,989,491</u>  | 12 | <u>¥1,674,385</u>   | 17 | <u>¥13,852</u>      |
| 3 | <u>57,463,340</u>  | 8  | <u>35,038.224</u>   | 13 | <u>¥315,927,987</u> | 18 | <u>¥819,452,542</u> |
| 4 | <u>1.945</u>       | 9  | <u>132,801,270</u>  | 14 | <u>¥12,174,267</u>  | 19 | <u>¥7,256</u>       |
| 5 | <u>29.360</u>      | 10 | <u>54,892,045</u>   | 15 | <u>¥293,695,162</u> | 20 | <u>¥4,236</u>       |

### Divisão

|   |              |    |               |    |                |    |               |
|---|--------------|----|---------------|----|----------------|----|---------------|
| 1 | <u>4.756</u> | 6  | <u>32,198</u> | 11 | <u>¥9,048</u>  | 16 | <u>¥7,916</u> |
| 2 | <u>8.351</u> | 7  | <u>9,107</u>  | 12 | <u>¥6,214</u>  | 17 | <u>¥4,509</u> |
| 3 | <u>7.820</u> | 8  | <u>60.42</u>  | 13 | <u>¥18,375</u> | 18 | <u>¥2,497</u> |
| 4 | <u>1.645</u> | 9  | <u>283</u>    | 14 | <u>¥3,860</u>  | 19 | <u>¥7,651</u> |
| 5 | <u>5,739</u> | 10 | <u>6,904</u>  | 15 | <u>¥5,203</u>  | 20 | <u>¥832</u>   |

### Somas

|   |                     |    |                     |
|---|---------------------|----|---------------------|
| 1 | <u>¥267,665,544</u> | 6  | <u>¥176,523,516</u> |
| 2 | <u>¥225,322,560</u> | 7  | <u>¥110,647,432</u> |
| 3 | <u>¥140,665,897</u> | 8  | <u>¥197,636,733</u> |
| 4 | <u>¥182,851,317</u> | 9  | <u>-¥37,073,357</u> |
| 5 | <u>¥74,976,974</u>  | 10 | <u>¥322,642,728</u> |

### Cálculo de notas

|   |                    |    |                    |
|---|--------------------|----|--------------------|
| 1 | <u>¥23,984,730</u> | 6  | <u>¥21,784,779</u> |
| 2 | <u>¥25,763,967</u> | 7  | <u>¥19,013,400</u> |
| 3 | <u>¥17,730,900</u> | 8  | <u>¥26,990,469</u> |
| 4 | <u>¥23,989,194</u> | 9  | <u>¥24,962,067</u> |
| 5 | <u>¥19,344,537</u> | 10 | <u>¥24,247,638</u> |