

## Soroban Technology Lab

Pré-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  | $4,539 \times 4,860 =$  | 11 | $\yen 1,590 \times 0.1869 =$ |
| 2  | $105.2 \times 0.9425 =$ | 12 | $\yen 5,642 \times 5,974 =$  |
| 3  | $0.7185 \times 15.79 =$ | 13 | $\yen 4,735 \times 23.98 =$  |
| 4  | $3,871 \times 7,398 =$  | 14 | $\yen 9,481 \times 431.6 =$  |
| 5  | $5,138 \times 2,091 =$  | 15 | $\yen 21,934 \times 0.753 =$ |
| 6  | $8,694 \times 0.0752 =$ | 16 | $\yen 607 \times 34,250 =$   |
| 7  | $206 \times 31.246 =$   | 17 | $\yen 3,129 \times 6,247 =$  |
| 8  | $6,290 \times 6,807 =$  | 18 | $\yen 6,028 \times 9,801 =$  |
| 9  | $94,763 \times 834 =$   | 19 | $\yen 7,586 \times 8,105 =$  |
| 10 | $0.0247 \times 51.63 =$ | 20 | $\yen 8,703 \times 0.0672 =$ |

Divisão (tempo: 10 min)

(Atenção) Arredondar para 3 casas decimais

(Atenção) Arredondar para ienes inteiros

|    |                            |    |                             |
|----|----------------------------|----|-----------------------------|
| 1  | $2,815.776 \div 864 =$     | 11 | $\yen 18,204 \div 379.25 =$ |
| 2  | $1,157,988 \div 13 =$      | 12 | $\yen 4,715,980 \div 940 =$ |
| 3  | $4,146,228 \div 5,427 =$   | 13 | $\yen 1,794 \div 0.716 =$   |
| 4  | $6,737.78 \div 283.1 =$    | 14 | $\yen 512,996 \div 576.4 =$ |
| 5  | $3,846,420 \div 419 =$     | 15 | $\yen 2,062,787 \div 283 =$ |
| 6  | $2,269,750 \div 350 =$     | 16 | $\yen 52 \div 0.0832 =$     |
| 7  | $4,583,148 \div 9,148 =$   | 17 | $\yen 144,936 \div 1,098 =$ |
| 8  | $0.3435465 \div 0.73095 =$ | 18 | $\yen 3,123,946 \div 49 =$  |
| 9  | $0.04584 \div 0.026 =$     | 19 | $\yen 7,926,981 \div 867 =$ |
| 10 | $6.04286 \div 65.72 =$     | 20 | $\yen 222 \div 0.6501 =$    |

# Soroban Technology Lab

Pré-2º kyu Somas (tempo: 8 min)

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

| N.º   | 1           | 2         | 3           | 4         | 5           |
|-------|-------------|-----------|-------------|-----------|-------------|
| 1     | ¥ 7,134,089 | ¥ 890,461 | ¥ 8,294,563 | ¥ 391,754 | ¥ 3,098,425 |
| 2     | 350,472     | 9,018,237 | 150,837     | 58,216    | 743,968     |
| 3     | 905,217     | 54,873    | 5,479       | 2,467,039 | -926,307    |
| 4     | 18,936      | 1,259     | -1,986,025  | 182,956   | -60,715     |
| 5     | 49,603      | 4,920,186 | -27,861     | 73,485    | 2,869       |
| 6     | 6,708,524   | 76,543    | 62,403      | 3,721,690 | 4,170,532   |
| 7     | 243,186     | 6,709,325 | 4,013,756   | 940,821   | 14,890      |
| 8     | 8,579,210   | 587,016   | 9,541,280   | 4,507     | 8,457,031   |
| 9     | 5,862,497   | 245,738   | -703,694    | 8,619,043 | -1,289,654  |
| 10    | 6,351       | 3,162,904 | -372,918    | 6,208,375 | -531,276    |
| Total |             |           |             |           |             |

| N.º   | 6         | 7           | 8         | 9          | 10        |
|-------|-----------|-------------|-----------|------------|-----------|
| 1     | ¥ 47,290  | ¥ 6,153,842 | ¥ 62,954  | ¥ 2,879    | ¥ 79,654  |
| 2     | 834,159   | 3,048,671   | 753,081   | 13,542     | 308,742   |
| 3     | 60,581    | -207,396    | 2,984,617 | -8,056,417 | 1,530,267 |
| 4     | 9,684,203 | -985,723    | 6,817,932 | -39,268    | 5,310     |
| 5     | 2,718     | 70,652      | 502,463   | 180,346    | 980,721   |
| 6     | 375,964   | 817,094     | 31,795    | 9,527,031  | 6,894,305 |
| 7     | 5,409,823 | 96,238      | 8,674,230 | 674,890    | 8,657,139 |
| 8     | 6,750,312 | 5,462,189   | 9,805     | 463,925    | 12,984    |
| 9     | 123,647   | -1,405      | 4,096,571 | -5,348,701 | 263,849   |
| 10    | 7,598,061 | -4,539,710  | 140,328   | -7,291,650 | 4,021,576 |
| Total |           |             |           |            |           |

## Soroban Technology Lab

Pré-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) |

| Pré-2º kyu<br>Cálculo de notas<br>(tempo: 8 min) |                |                |                                                |
|--------------------------------------------------|----------------|----------------|------------------------------------------------|
|                                                  | 2              | 3              | 1                                              |
| (1) $\frac{\text{?}}{\text{?}}$                  | <u>402,958</u> |                |                                                |
| (2) $\frac{\text{?}}{\text{?}}$                  | <u>21,789</u>  |                |                                                |
| (3) $\frac{\text{?}}{\text{?}}$                  | <u>234,590</u> |                |                                                |
| (4) $\frac{\text{?}}{\text{?}}$                  | <u>427,860</u> |                |                                                |
| (5) $\frac{\text{?}}{\text{?}}$                  | <u>614,092</u> |                |                                                |
| (1) $\frac{\text{?}}{\text{?}}$                  |                | <u>1,243</u>   | (1) $\frac{\text{?}}{\text{?}}$ <u>26,179</u>  |
| (2) $\frac{\text{?}}{\text{?}}$                  |                | <u>143,962</u> | (2) $\frac{\text{?}}{\text{?}}$ <u>4,650</u>   |
| (3) $\frac{\text{?}}{\text{?}}$                  |                | <u>59,028</u>  | (3) $\frac{\text{?}}{\text{?}}$ <u>308,417</u> |
| (4) $\frac{\text{?}}{\text{?}}$                  |                | <u>648,071</u> | (4) $\frac{\text{?}}{\text{?}}$ <u>54,391</u>  |
| (5) $\frac{\text{?}}{\text{?}}$                  |                | <u>428</u>     | (5) $\frac{\text{?}}{\text{?}}$ <u>208,763</u> |

|              |                  |              |                 |
|--------------|------------------|--------------|-----------------|
| 6            |                  | 4            |                 |
| (1) <u>¥</u> | <u>3,4 / 6</u>   | (1) <u>¥</u> | <u>674,85 /</u> |
| (2) <u>¥</u> | <u>652</u>       | (2) <u>¥</u> | <u>974,80 /</u> |
| (3) <u>¥</u> | <u>67,529</u>    | (3) <u>¥</u> | <u>6,357</u>    |
| (4) <u>¥</u> | <u>902,485</u>   | (4) <u>¥</u> | <u>5,369</u>    |
| (5) <u>¥</u> | <u>9,735</u>     | (5) <u>¥</u> | <u>1,569</u>    |
| 7            |                  | 5            |                 |
| (1) <u>¥</u> | <u>97,302</u>    | (1) <u>¥</u> | <u>758,960</u>  |
| (2) <u>¥</u> | <u>5,387</u>     | (2) <u>¥</u> | <u>256,340</u>  |
| (3) <u>¥</u> | <u>98 /</u>      | (3) <u>¥</u> | <u>4,6 / 2</u>  |
| (4) <u>¥</u> | <u>726</u>       | (4) <u>¥</u> | <u>271,503</u>  |
| (5) <u>¥</u> | <u>590,6 / 3</u> | (5) <u>¥</u> | <u>327,184</u>  |

|                                                                |                  |     |                  |
|----------------------------------------------------------------|------------------|-----|------------------|
| 10                                                             |                  | 8   |                  |
| (1)                                                            | <u>¥ 58 /</u>    | (1) | <u>¥ 39,720</u>  |
| (2)                                                            | <u>¥ 307,526</u> | (2) | <u>¥ 80,193</u>  |
| (3)                                                            | <u>¥ 875,104</u> | (3) | <u>¥ 780,436</u> |
| (4)                                                            | <u>¥ 3,948</u>   | (4) | <u>¥ 89,157</u>  |
| (5)                                                            | <u>¥ 53,284</u>  | (5) | <u>¥ 74,906</u>  |
| <div>As páginas seguintes trazem os exercícios (6)–(10).</div> |                  | 9   |                  |
|                                                                |                  | (1) | <u>¥ 840,635</u> |
|                                                                |                  | (2) | <u>¥ 79,418</u>  |
|                                                                |                  | (3) | <u>¥ 13,269</u>  |
|                                                                |                  | (4) | <u>¥ 10,632</u>  |
|                                                                |                  | (5) | <u>¥ 85,170</u>  |

|     |                 |     |                  |
|-----|-----------------|-----|------------------|
| 13  |                 | 11  |                  |
| (1) | ¥ <u>9,30 /</u> | (1) | ¥ <u>960,247</u> |
| (2) | ¥ <u>739</u>    | (2) | ¥ <u>165,370</u> |
| (3) | ¥ <u>97,643</u> | (3) | ¥ <u>580,162</u> |
| (4) | ¥ <u>8,136</u>  | (4) | ¥ <u>6,908</u>   |
| (5) | ¥ <u>583</u>    | (5) | ¥ <u>291,640</u> |
| 14  |                 | 12  |                  |
| (1) | ¥ <u>86,054</u> | (1) | ¥ <u>13,578</u>  |
| (2) | ¥ <u>50,284</u> | (2) | ¥ <u>9,218</u>   |
| (3) | ¥ <u>72,581</u> | (3) | ¥ <u>239,704</u> |
| (4) | ¥ <u>97,028</u> | (4) | ¥ <u>12,475</u>  |
| (5) | ¥ <u>1,946</u>  | (5) | ¥ <u>975,028</u> |

|     |                  |     |                  |
|-----|------------------|-----|------------------|
| 17  |                  | 15  |                  |
| (1) | ¥ <u>495,162</u> | (1) | ¥ <u>237,189</u> |
| (2) | ¥ <u>438,026</u> | (2) | ¥ <u>2,960</u>   |
| (3) | ¥ <u>614,027</u> | (3) | ¥ <u>1,963</u>   |
| (4) | ¥ <u>75,602</u>  | (4) | ¥ <u>231,954</u> |
| (5) | ¥ <u>3,472</u>   | (5) | ¥ <u>420,715</u> |
| 18  |                  | 16  |                  |
| (1) | ¥ <u>6,480</u>   | (1) | ¥ <u>328</u>     |
| (2) | ¥ <u>697,105</u> | (2) | ¥ <u>84,517</u>  |
| (3) | ¥ <u>803,419</u> | (3) | ¥ <u>350</u>     |
| (4) | ¥ <u>450,317</u> | (4) | ¥ <u>689,370</u> |
| (5) | ¥ <u>38,950</u>  | (5) | ¥ <u>709,561</u> |

|     |                     |
|-----|---------------------|
| 19  |                     |
| (1) | $\frac{2}{501,672}$ |
| (2) | $\frac{2}{326,497}$ |
| (3) | $\frac{2}{5,986}$   |
| (4) | $\frac{2}{584}$     |
| (5) | $\frac{2}{64,837}$  |
| 20  |                     |
| (1) | $\frac{2}{74,935}$  |
| (2) | $\frac{2}{41,853}$  |
| (3) | $\frac{2}{48,275}$  |
| (4) | $\frac{2}{364,291}$ |
| (5) | $\frac{2}{86,123}$  |

## Gabarito Pré-2º kyu

### Multiplicação

|   |                   |    |                   |    |                    |    |                    |
|---|-------------------|----|-------------------|----|--------------------|----|--------------------|
| 1 | <u>22,059,540</u> | 6  | <u>653.789</u>    | 11 | <u>¥297</u>        | 16 | <u>¥20,789,750</u> |
| 2 | <u>99.151</u>     | 7  | <u>6,436,676</u>  | 12 | <u>¥33,705,308</u> | 17 | <u>¥19,546,863</u> |
| 3 | <u>11.345</u>     | 8  | <u>42,816,030</u> | 13 | <u>¥113,545</u>    | 18 | <u>¥59,080,428</u> |
| 4 | <u>28,637,658</u> | 9  | <u>79,032,342</u> | 14 | <u>¥4,092,000</u>  | 19 | <u>¥61,484,530</u> |
| 5 | <u>10,743,558</u> | 10 | <u>1.275</u>      | 15 | <u>¥16,516</u>     | 20 | <u>¥585</u>        |

### Divisão

|   |               |    |              |    |               |    |                |
|---|---------------|----|--------------|----|---------------|----|----------------|
| 1 | <u>3.259</u>  | 6  | <u>6,485</u> | 11 | <u>¥48</u>    | 16 | <u>¥625</u>    |
| 2 | <u>89,076</u> | 7  | <u>501</u>   | 12 | <u>¥5,017</u> | 17 | <u>¥132</u>    |
| 3 | <u>764</u>    | 8  | <u>0.47</u>  | 13 | <u>¥2,506</u> | 18 | <u>¥63,754</u> |
| 4 | <u>23.8</u>   | 9  | <u>1.763</u> | 14 | <u>¥890</u>   | 19 | <u>¥9,143</u>  |
| 5 | <u>9,180</u>  | 10 | <u>0.092</u> | 15 | <u>¥7,289</u> | 20 | <u>¥341</u>    |

### Somas

|   |                    |    |                    |
|---|--------------------|----|--------------------|
| 1 | <u>¥29,858,085</u> | 6  | <u>¥30,886,758</u> |
| 2 | <u>¥25,666,542</u> | 7  | <u>¥9,914,452</u>  |
| 3 | <u>¥18,977,820</u> | 8  | <u>¥24,073,776</u> |
| 4 | <u>¥22,667,886</u> | 9  | <u>-¥9,873,423</u> |
| 5 | <u>¥13,679,763</u> | 10 | <u>¥22,754,547</u> |

### Cálculo de notas

|   |                   |    |                   |
|---|-------------------|----|-------------------|
| 1 | <u>¥2,845,845</u> | 6  | <u>¥2,384,946</u> |
| 2 | <u>¥1,874,718</u> | 7  | <u>¥1,816,569</u> |
| 3 | <u>¥2,350,323</u> | 8  | <u>¥2,464,110</u> |
| 4 | <u>¥2,414,142</u> | 9  | <u>¥1,936,665</u> |
| 5 | <u>¥1,965,744</u> | 10 | <u>¥2,592,855</u> |