

## 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  | $0.76259 \times 736.8 =$ | 11 | $\yen 46,123 \times 5,827 =$  |
| 2  | $97,218 \times 1,856 =$  | 12 | $\yen 850,197 \times 6.18 =$  |
| 3  | $50,437 \times 9,025 =$  | 13 | $\yen 43,768 \times 2,456 =$  |
| 4  | $89,304 \times 5,673 =$  | 14 | $\yen 15,079 \times 9,054 =$  |
| 5  | $0.02581 \times 3.954 =$ | 15 | $\yen 2,394 \times 0.13085 =$ |
| 6  | $17,036 \times 8,140 =$  | 16 | $\yen 91,680 \times 8,793 =$  |
| 7  | $25,460 \times 230.9 =$  | 17 | $\yen 65,492 \times 3,690 =$  |
| 8  | $678.13 \times 0.4287 =$ | 18 | $\yen 58,076 \times 0.0279 =$ |
| 9  | $4,892 \times 67,491 =$  | 19 | $\yen 73,205 \times 0.7412 =$ |
| 10 | $346,915 \times 0.012 =$ | 20 | $\yen 34,821 \times 43.61 =$  |

#### Divisão (tempo: 10 min)

(Atenção) Arredondar para 3 casas decimais

(Atenção) Arredondar para ienes inteiros

|    |                           |    |                                |
|----|---------------------------|----|--------------------------------|
| 1  | $0.1236438 \div 0.0126 =$ | 11 | $\yen 37,998,242 \div 5,279 =$ |
| 2  | $86.13385 \div 238.79 =$  | 12 | $\yen 3,507 \div 0.8016 =$     |
| 3  | $56,855,900 \div 940 =$   | 13 | $\yen 57,724,632 \div 6,483 =$ |
| 4  | $32,191,320 \div 6,051 =$ | 14 | $\yen 46,986,348 \div 732 =$   |
| 5  | $68,343,264 \div 7,614 =$ | 15 | $\yen 26,799,773 \div 4,571 =$ |
| 6  | $27.09321 \div 12.85 =$   | 16 | $\yen 3,010 \div 0.3125 =$     |
| 7  | $0.7106187 \div 0.4063 =$ | 17 | $\yen 6,217,360 \div 2,480 =$  |
| 8  | $64,829.978 \div 8,537 =$ | 18 | $\yen 6,700,957 \div 905.4 =$  |
| 9  | $34,400,986 \div 5,498 =$ | 19 | $\yen 446,469 \div 1,369.7 =$  |
| 10 | $17,087,544 \div 3,972 =$ | 20 | $\yen 121 \div 0.0968 =$       |

# Soroban Technology Lab

2º kyu Somas (tempo: 8 min)

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

| N.º   | 1          | 2          | 3            | 4           |
|-------|------------|------------|--------------|-------------|
| 1     | ¥ 38,025   | ¥ 26,741   | ¥ 35,217,496 | ¥ 8,206,731 |
| 2     | 549,731    | 537,862    | 3,065,819    | 58,943      |
| 3     | 24,835,067 | 942,358    | 60,548,273   | 184,295     |
| 4     | 6,359,812  | 60,139,584 | 194,806      | 736,148     |
| 5     | 49,761,285 | 8,691,075  | -8,472,013   | 96,512,780  |
| 6     | 1,403,926  | 3,249,601  | -4,701,532   | 3,025,479   |
| 7     | 7,618,340  | 42,875,390 | 926,158      | 27,341,906  |
| 8     | 62,094,571 | 75,301,286 | 79,634       | 62,910,857  |
| 9     | 83,176,409 | 9,018,457  | -51,387,920  | 5,463,021   |
| 10    | 920,758    | 17,460,923 | -29,850,467  | 49,870,365  |
| Total |            |            |              |             |

| N.º   | 5           | 6            | 7            |
|-------|-------------|--------------|--------------|
| 1     | ¥ 153,980   | ¥ 23,170,965 | ¥ 50,631,974 |
| 2     | 81,094,627  | 4,598,230    | 129,045      |
| 3     | -3,507,168  | 8,472,361    | -85,213      |
| 4     | -732,481    | 50,794       | -6,724,805   |
| 5     | 69,037      | 7,048,625    | 89,376,120   |
| 6     | 46,357,812  | 89,703,156   | 43,857,916   |
| 7     | 2,946,503   | 917,248      | 2,069,481    |
| 8     | 20,415,679  | 364,152      | 38,504,672   |
| 9     | -54,820,796 | 10,635,489   | -972,538     |
| 10    | -9,281,354  | 61,829,073   | -7,410,369   |
| Total |             |              |              |

| N.º   | 8          | 9           | 10           |
|-------|------------|-------------|--------------|
| 1     | ¥ 954,786  | ¥ 7,548,036 | ¥ 50,627,381 |
| 2     | 89,613,270 | 413,629     | 85,139       |
| 3     | 6,138,509  | -5,182,497  | 4,296,058    |
| 4     | 21,746     | -90,648,375 | 29,401,876   |
| 5     | 12,345,089 | 25,189      | 920,437      |
| 6     | 3,810,625  | 89,034,621  | 6,041,825    |
| 7     | 21,047,398 | 64,751,280  | 1,764,593    |
| 8     | 706,954    | -379,502    | 378,219      |
| 9     | 40,579,823 | -73,206,815 | 43,859,760   |
| 10    | 5,264,137  | 1,930,764   | 72,513,604   |
| 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) |

| 2   |   | 2º kyu    |     | Cálculo de notas |           |
|-----|---|-----------|-----|------------------|-----------|
|     |   |           |     | (tempo: 8 min)   |           |
| (1) | 2 | 31,724    |     |                  |           |
| (2) | 2 | 3,784     |     |                  |           |
| (3) | 2 | 63,107    |     |                  |           |
| (4) | 2 | 97,432    |     |                  |           |
| (5) | 2 | 2,193,460 |     |                  |           |
| 3   |   | 1         |     |                  |           |
| (1) | 3 | 9,318     | (1) | 2                | 253,687   |
| (2) | 3 | 5,032,879 | (2) | 2                | 8,190,253 |
| (3) | 3 | 1,536,048 | (3) | 2                | 3,895,420 |
| (4) | 3 | 7,013,298 | (4) | 2                | 45,086    |
| (5) | 3 | 836,159   | (5) | 2                | 40,258    |

|       |                  |       |                  |
|-------|------------------|-------|------------------|
| 6     |                  | 4     |                  |
| (1) ¥ | <u>14,782</u>    | (1) ¥ | <u>4,092,653</u> |
| (2) ¥ | <u>651,702</u>   | (2) ¥ | <u>913,465</u>   |
| (3) ¥ | <u>928,147</u>   | (3) ¥ | <u>2,976</u>     |
| (4) ¥ | <u>1,968,507</u> | (4) ¥ | <u>1,740</u>     |
| (5) ¥ | <u>609,723</u>   | (5) ¥ | <u>972,048</u>   |
| 7     |                  | 5     |                  |
| (1) ¥ | <u>5,460,931</u> | (1) ¥ | <u>906,145</u>   |
| (2) ¥ | <u>74,638</u>    | (2) ¥ | <u>25,984</u>    |
| (3) ¥ | <u>7,309,651</u> | (3) ¥ | <u>456,392</u>   |
| (4) ¥ | <u>624,135</u>   | (4) ¥ | <u>8,436,295</u> |
| (5) ¥ | <u>16,284</u>    | (5) ¥ | <u>7,584</u>     |

|                                                                |                    |     |                    |
|----------------------------------------------------------------|--------------------|-----|--------------------|
| 10                                                             |                    | 8   |                    |
| (1)                                                            | ¥ <u>673,208</u>   | (1) | ¥ <u>8,725,094</u> |
| (2)                                                            | ¥ <u>482,016</u>   | (2) | ¥ <u>1,367,290</u> |
| (3)                                                            | ¥ <u>174,289</u>   | (3) | ¥ <u>5,642,870</u> |
| (4)                                                            | ¥ <u>3,180,924</u> | (4) | ¥ <u>507,861</u>   |
| (5)                                                            | ¥ <u>3,754,801</u> | (5) | ¥ <u>5,061,397</u> |
| <div>As páginas seguintes trazem os exercícios (6)–(10).</div> |                    | 9   |                    |
|                                                                |                    | (1) | ¥ <u>7,180,569</u> |
|                                                                |                    | (2) | ¥ <u>6,749,501</u> |
|                                                                |                    | (3) | ¥ <u>80,513</u>    |
|                                                                |                    | (4) | ¥ <u>273,659</u>   |
|                                                                |                    | (5) | ¥ <u>7,325,916</u> |

|     |                    |     |                    |
|-----|--------------------|-----|--------------------|
| 13  |                    | 11  |                    |
| (1) | ¥ <u>4,607,251</u> | (1) | ¥ <u>5,478,193</u> |
| (2) | ¥ <u>517,263</u>   | (2) | ¥ <u>270,631</u>   |
| (3) | ¥ <u>974,251</u>   | (3) | ¥ <u>5,168,320</u> |
| (4) | ¥ <u>53,841</u>    | (4) | ¥ <u>7,159,026</u> |
| (5) | ¥ <u>2,459,613</u> | (5) | ¥ <u>4,753,018</u> |
| 14  |                    | 12  |                    |
| (1) | ¥ <u>8,369,042</u> | (1) | ¥ <u>6,905</u>     |
| (2) | ¥ <u>7,806,549</u> | (2) | ¥ <u>54,982</u>    |
| (3) | ¥ <u>798,465</u>   | (3) | ¥ <u>4,635,708</u> |
| (4) | ¥ <u>8,297</u>     | (4) | ¥ <u>1,738,605</u> |
| (5) | ¥ <u>3,210,465</u> | (5) | ¥ <u>67,482</u>    |

|     |             |     |             |
|-----|-------------|-----|-------------|
| 17  |             | 15  |             |
| (1) | ¥ / 5,762   | (1) | ¥ 21,806    |
| (2) | ¥ / 897     | (2) | ¥ 4,782,930 |
| (3) | ¥ 9,325,706 | (3) | ¥ 270,134   |
| (4) | ¥ 6,971,420 | (4) | ¥ 9,012,736 |
| (5) | ¥ 923,587   | (5) | ¥ 5,278     |
| 18  |             | 16  |             |
| (1) | ¥ 748,930   | (1) | ¥ 287,534   |
| (2) | ¥ 694,015   | (2) | ¥ 8,135,024 |
| (3) | ¥ 3,914     | (3) | ¥ 19,028    |
| (4) | ¥ 385,704   | (4) | ¥ 49,685    |
| (5) | ¥ 92,106    | (5) | ¥ 7,041,639 |

|     |                  |
|-----|------------------|
| 19  |                  |
| (1) | <u>3.094,618</u> |
| (2) | <u>32,167</u>    |
| (3) | <u>81,692</u>    |
| (4) | <u>420,368</u>   |
| (5) | <u>108,954</u>   |
| 20  |                  |
| (1) | <u>953,127</u>   |
| (2) | <u>9,068,354</u> |
| (3) | <u>6,507,483</u> |
| (4) | <u>294,513</u>   |
| (5) | <u>836,790</u>   |

## Gabarito 2º kyu

### Multiplicação

|   |                    |    |                    |    |                     |    |                     |
|---|--------------------|----|--------------------|----|---------------------|----|---------------------|
| 1 | <u>561.876</u>     | 6  | <u>138,673,040</u> | 11 | <u>¥268,758,721</u> | 16 | <u>¥806,142,240</u> |
| 2 | <u>180,436,608</u> | 7  | <u>5,878,714</u>   | 12 | <u>¥5,254,217</u>   | 17 | <u>¥241,665,480</u> |
| 3 | <u>455,193,925</u> | 8  | <u>290.714</u>     | 13 | <u>¥107,494,208</u> | 18 | <u>¥1,620</u>       |
| 4 | <u>506,621,592</u> | 9  | <u>330,165,972</u> | 14 | <u>¥136,525,266</u> | 19 | <u>¥54,260</u>      |
| 5 | <u>0.102</u>       | 10 | <u>4,162.98</u>    | 15 | <u>¥313</u>         | 20 | <u>¥1,518,544</u>   |

### Divisão

|   |               |    |              |    |                |    |               |
|---|---------------|----|--------------|----|----------------|----|---------------|
| 1 | <u>9.813</u>  | 6  | <u>2.108</u> | 11 | <u>¥7,198</u>  | 16 | <u>¥9,632</u> |
| 2 | <u>0.361</u>  | 7  | <u>1.749</u> | 12 | <u>¥4,375</u>  | 17 | <u>¥2,507</u> |
| 3 | <u>60,485</u> | 8  | <u>7.594</u> | 13 | <u>¥8,904</u>  | 18 | <u>¥7,401</u> |
| 4 | <u>5,320</u>  | 9  | <u>6,257</u> | 14 | <u>¥64,189</u> | 19 | <u>¥326</u>   |
| 5 | <u>8,976</u>  | 10 | <u>4,302</u> | 15 | <u>¥5,863</u>  | 20 | <u>¥1,250</u> |

### Somas

|   |                     |    |                     |
|---|---------------------|----|---------------------|
| 1 | <u>¥236,757,924</u> | 6  | <u>¥206,790,093</u> |
| 2 | <u>¥218,243,277</u> | 7  | <u>¥209,376,283</u> |
| 3 | <u>¥5,620,254</u>   | 8  | <u>¥180,482,337</u> |
| 4 | <u>¥254,310,525</u> | 9  | <u>-¥5,713,670</u>  |
| 5 | <u>¥82,695,839</u>  | 10 | <u>¥209,888,892</u> |

### Cálculo de notas

|   |                    |    |                    |
|---|--------------------|----|--------------------|
| 1 | <u>¥27,348,111</u> | 6  | <u>¥23,583,168</u> |
| 2 | <u>¥23,491,512</u> | 7  | <u>¥31,363,812</u> |
| 3 | <u>¥20,089,413</u> | 8  | <u>¥27,784,701</u> |
| 4 | <u>¥22,148,937</u> | 9  | <u>¥26,094,195</u> |
| 5 | <u>¥20,817,630</u> | 10 | <u>¥19,498,932</u> |