

Soroban Technology Lab

1 Kyu Multiplication (7 min)

No.		Name	
Date		Score	

(Note) Round to 3 decimal places

1	$58,431 \times 8,936 =$
2	$0.092 \times 6,745.23 =$
3	$24,030 \times 0.3054 =$
4	$4,725 \times 13,488 =$
5	$668.9 \times 9,206.7 =$
6	$715,926 \times 259 =$
7	$0.80713 \times 0.0611 =$

(Note) Round to the nearest integer

8	$80,142 \times 0.0508 =$
9	$7,328 \times 0.69572 =$
10	$475,195 \times 719 =$
11	$1,394 \times 43,683 =$
12	$97,563 \times 821.7 =$
13	$5,207 \times 1,807.5 =$
14	$609 \times 347,214 =$
15	$36,486 \times 5,690 =$

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1 Kyu Division (7 min)

No.		Name	
Date		Score	

(Note) Round to 3 decimal places

1	$39.362686 \div 0.6589 =$
2	$11,349,170 \div 197 =$
3	$1.912204 \div 0.0868 =$
4	$60,997,676 \div 922 =$
5	$0.03071426 \div 0.52072 =$
6	$7,183,010 \div 4,930 =$
7	$7.412956 \div 1.867 =$

(Note) Round to the nearest integer

8	$7,191,156 \div 870.6 =$
9	$21 \div 0.05945 =$
10	$1,371 \div 0.4559 =$
11	$5,194,693 \div 753.4 =$
12	$21,687,237 \div 48,087 =$
13	$17,587,767 \div 4,497 =$
14	$17,993,875 \div 3,511 =$
15	$26,966,181 \div 363 =$

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1 Kyu Sums (7 min)

No.		Name	
Date		Score	

1	2	3	4	5
4,910,257	79,305	967,308	694,350	30,957
109,673	143,078	-648,732	530,814	176,034
6,831,724	29,750	9,108	83,076	-681,392
5,190	918,346	3,650,714	2,965	49,208
8,732	829,573	-1,842,537	17,304	15,379
16,495	62,041	26,059	7,594,618	674,258
30,862	45,360	-70,926	6,021	-20,374
905,714	287,915	8,413	3,948,275	-506,819

6	7	8	9	10
820,417	68,730	508,763	548,092	510,843
2,097,548	-39,178	74,028	7,205	7,950
76,804	706,452	296,471	-132,869	2,379,601
92,381	-469,831	139,568	-67,908	54,326
9,085,137	56,203	40,937	3,654	810,472
4,562	79,845	25,081	84,015	83,156
540,936	901,537	64,802	7,093,246	6,390,485
7,218	-184,260	193,576	-5,327,981	2,179

11	12	13	14	15
5,401,786	409,612	54,620	284,170	3,670
47,290	-64,305	601,384	9,786	6,751
26,014	85,791	974,650	905,172	-40,318
3,489	390,476	145,372	2,856	27,490
2,075,134	29,761	16,829	40,173	-813,965
687,591	12,438	70,548	5,839,246	321,780
902,153	-409,875	31,456	67,308	4,689,531
8,476	-126,053	203,879	7,012,549	-2,940,765

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1 Kyu Receipts (7 min)

No.		Name	
Date		Score	

pp. 1-8	(1)	(2)	(3)	(4)	(5)
pp. 9-16	(6)	(7)	(8)	(9)	(10)
pp. 17-24	(11)	(12)	(13)	(14)	(15)

1 Kyu Receipts (7 min)

2		1 Kyu Receipts (7 min)		1	
(1)	309,486	(1)	14,207		
(2)	35,761	(2)	902,687		
(3)	638,924	(3)	85,260		
(4)	7,041	(4)	732,508		
(5)	31,748	(5)	489,063		
3					
(1)	743,612	(1)			
(2)	752,046	(2)			
(3)	84,317	(3)			
(4)	420,563	(4)			
(5)	907,236	(5)			

1 Kyu Receipts (7 min)

6		4	
(1)	<u>8, / 4 5</u>	(1)	<u>9, / 5 7</u>
(2)	<u>9, 6 4 3</u>	(2)	<u>3, 9 / 8</u>
(3)	<u>7, 9 / 4</u>	(3)	<u>1 9 2, 4 8 6</u>
(4)	<u>5 9 6, / 3 4</u>	(4)	<u>9 2, 6 8 7</u>
(5)	<u>4 8, 5 2 3</u>	(5)	<u>6 4 5, / 2 8</u>
7		5	
(1)	<u>4, 3 6 9</u>	(1)	<u>8 3, 5 2 0</u>
(2)	<u>7 2 3, 5 8 0</u>	(2)	<u>2 4, 8 5 6</u>
(3)	<u>3 / 0, 7 9 5</u>	(3)	<u>6, 0 3 2</u>
(4)	<u>/ 5, 3 8 9</u>	(4)	<u>8, 4 6 0</u>
(5)	<u>/, 6 9 5</u>	(5)	<u>7, 2 0 4</u>

	8
(1)	560,298
(2)	5,702
(3)	1,507
(4)	7,195
(5)	9,150

The next pages are questions (6)–(10).

	9
(1)	3,681
(2)	605,971
(3)	46,573
(4)	362,594
(5)	38,972

	10
(1)	609,523
(2)	560,432
(3)	382,190
(4)	59,328
(5)	9,523

1 Kyu Receipts (7 min)

13		11	
(1)	<u>65,483</u>	(1)	<u>8,947</u>
(2)	<u>25,970</u>	(2)	<u>6,341</u>
(3)	<u>6,471</u>	(3)	<u>7,018</u>
(4)	<u>5,472</u>	(4)	<u>14,806</u>
(5)	<u>526,897</u>	(5)	<u>4,107</u>
14		12	
(1)	<u>34,820</u>	(1)	<u>510,794</u>
(2)	<u>94,527</u>	(2)	<u>684,032</u>
(3)	<u>3,985</u>	(3)	<u>930,247</u>
(4)	<u>609,357</u>	(4)	<u>280,531</u>
(5)	<u>471,059</u>	(5)	<u>2,786</u>

The next pages are questions (11)–(15).	15	(1) <u>425,179</u>
		(2) <u>8,749</u>
		(3) <u>21,456</u>
		(4) <u>1,870</u>
		(5) <u>645,180</u>
	16	(1) <u>1,207</u>
		(2) <u>1,485</u>
		(3) <u>812,509</u>
		(4) <u>7,469</u>
		(5) <u>10,346</u>
	17	(1) <u>145,687</u>
		(2) <u>8,319</u>
		(3) <u>876,235</u>
		(4) <u>293,504</u>
		(5) <u>102,583</u>

1 Kyu Receipts (7 min)

20		18	
(1)	<u>7,036</u>	(1)	<u>12,859</u>
(2)	<u>50,783</u>	(2)	<u>4,795</u>
(3)	<u>93,826</u>	(3)	<u>642,981</u>
(4)	<u>7,625</u>	(4)	<u>8,236</u>
(5)	<u>8,930</u>	(5)	<u>94,751</u>
21		19	
(1)	<u>40,371</u>	(1)	<u>4,598</u>
(2)	<u>63,249</u>	(2)	<u>397,540</u>
(3)	<u>904,513</u>	(3)	<u>7,102</u>
(4)	<u>16,378</u>	(4)	<u>802,461</u>
(5)	<u>742,816</u>	(5)	<u>135,826</u>

1 Kyu Receipts (7 min)

24		22	
(1)	<u>9 / 5,230</u>	(1)	<u>9,803</u>
(2)	<u>2,106</u>	(2)	<u>704,162</u>
(3)	<u>3,140</u>	(3)	<u>3,971</u>
(4)	<u>3,571</u>	(4)	<u>490,857</u>
(5)	<u>8,204</u>	(5)	<u>90,754</u>
		23	
		(1)	<u>687,159</u>
		(2)	<u>691,235</u>
		(3)	<u>35,097</u>
		(4)	<u>79,014</u>
		(5)	<u>1,479</u>

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1 Kyu Mental Calculation (3 min)

No.		Name	
Date		Score	

1	2	3	4	5
193	71	908	306	389
804	682	157	184	645
79	495	-93	46	62
384	26	810	589	-75
62	413	-64	217	-803
105	708	572	30	149

6	7	8	9	10
167	705	423	324	958
809	324	109	815	60
92	13	56	54	-471
501	-20	48	861	40
86	674	301	20	-586
347	-985	279	379	932

11	12	13	14	15
973	692	783	683	719
480	380	16	254	-260
48	-62	409	60	58
72	407	521	874	130
639	83	83	32	-247
501	-915	697	951	69

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1 Kyu Applied Calculation (10 min)

No.		Name	
Date		Score	

- (1) Find the missing number.
 $437,164 + 367 \times 410 \div 734 = \square$
 Answer

- (2) Find the missing number.
 $\square \times 776 + 3,303 = 87,111$
 Answer

- (3) Round each number to three significant figures before calculating. Give the answer to three significant figures as well.
 $76,451 \times 7,931$
 Answer

- (4) Calculate the following. (Round the final result to the nearest yen.)
 $\yen 6,800 \times (0.07 \times \frac{11}{12})$
 Answer

Fill in the blanks in the table below. (Round the discount down to the nearest yen.)

List price (yen)	Discount rate (%)	Discount (yen)	Selling price (yen)
349,500	(5)	76,890	
574,600	35		(6)
(7)	26		45,362
52,600	42	(8)	

- (9) Goods bought for $\yen 52,300$ were given a list price for a profit of $\yen 14,900$, then sold at 15% off the list price. What was the selling price?
 Answer

- (10) Product A's sales target was $\yen 301,200$, and actual sales were $\yen 183,700$. What percentage of the target amount were the sales? (Round the percentage to one decimal place.)
 Answer

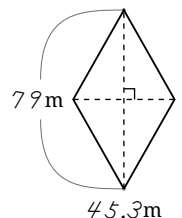
- (11) Walking at 3.8km/h, how many hours and minutes does it take to walk a road of 6.5km? (Round the final result up to the nearest minute.)
 Answer

- (12) Find the greatest common divisor of 89 and 216.
 Answer

- (13) An item was bought at 25% off the list price, and $\yen 26,070$ was paid including consumption tax. What was the list price before tax? The consumption tax rate is 10%.
 Answer

- (14) 29 items at $\yen 602$ each were bought. Paying in dollars, how many dollars and cents is it? Take $\$1 = \yen 106$. (Round up to the nearest cent.)
 Answer

- (15) What is the area of the rhombus on the right, in m^2 ?



Answer

Answers 1 Kyu

Multiplication

1	<i>522,139,416</i>	6	<i>185,424,834</i>	11	<i>60,894,102</i>
2	<i>620.561</i>	7	<i>0.049</i>	12	<i>80,167,517</i>
3	<i>7,338.762</i>	8	<i>4,071</i>	13	<i>9,411,653</i>
4	<i>63,730,800</i>	9	<i>5,098</i>	14	<i>211,453,326</i>
5	<i>6,158,361.63</i>	10	<i>341,665,205</i>	15	<i>207,605,340</i>

Division

1	<i>59.74</i>	6	<i>1,457</i>	11	<i>6,895</i>
2	<i>57,610</i>	7	<i>3,971</i>	12	<i>451</i>
3	<i>22.03</i>	8	<i>8,260</i>	13	<i>3,911</i>
4	<i>66,158</i>	9	<i>353</i>	14	<i>5,125</i>
5	<i>0.059</i>	10	<i>3,007</i>	15	<i>74,287</i>

Sums

1	<i>12,818,647</i>	6	<i>12,725,003</i>	11	<i>9,151,933</i>
2	<i>2,395,368</i>	7	<i>1,119,498</i>	12	<i>327,845</i>
3	<i>2,099,407</i>	8	<i>1,343,226</i>	13	<i>2,098,738</i>
4	<i>12,877,423</i>	9	<i>2,207,454</i>	14	<i>14,161,260</i>
5	<i>-262,749</i>	10	<i>10,239,012</i>	15	<i>1,254,174</i>

Receipts

1	<i>1,732,794</i>	6	<i>1,659,634</i>	11	<i>1,822,743</i>
2	<i>2,458,193</i>	7	<i>1,987,507</i>	12	<i>1,922,189</i>
3	<i>1,327,235</i>	8	<i>2,210,449</i>	13	<i>2,566,865</i>
4	<i>1,879,977</i>	9	<i>1,341,427</i>	14	<i>1,701,646</i>
5	<i>2,139,747</i>	10	<i>1,708,870</i>	15	<i>1,185,343</i>

Mental Calculation

1	<i>1,627</i>	6	<i>2,002</i>	11	<i>2,713</i>
2	<i>2,395</i>	7	<i>711</i>	12	<i>585</i>
3	<i>2,290</i>	8	<i>1,216</i>	13	<i>2,509</i>
4	<i>1,372</i>	9	<i>2,453</i>	14	<i>2,854</i>
5	<i>367</i>	10	<i>933</i>	15	<i>469</i>

Applied Calculation

1	<i>437,369</i>	6	<i>373,490</i>	11	<i>/h 43min</i>
2	<i>108</i>	7	<i>61,300</i>	12	<i>27</i>
3	<i>607,000,000</i>	8	<i>22,092</i>	13	<i>¥31,600</i>
4	<i>¥436</i>	9	<i>¥57,120</i>	14	<i>\$164.70</i>
5	<i>22</i>	10	<i>61%</i>	15	<i>1,789.35 m²</i>