

Soroban Technology Lab

3 Kyu Multiplication (7 min)

No.		Name	
Date		Score	

(Note) Round to 3 decimal places

1	$79,037 \times 40 =$
2	$0.593 \times 92.45 =$
3	$3,249 \times 0.086 =$
4	$0.0416 \times 0.217 =$
5	$62 \times 16,759 =$
6	$2,014 \times 810 =$
7	$8.25 \times 6.833 =$

(Note) Round to the nearest integer

8	$39,616 \times 34 =$
9	$8,254 \times 297 =$
10	$738 \times 0.0514 =$
11	$102 \times 8,328 =$
12	$78 \times 79,472 =$
13	$405 \times 60.05 =$
14	$9,741 \times 5.16 =$
15	$6,850 \times 0.923 =$

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3 Kyu Division (7 min)

No.		Name	
Date		Score	

(Note) Round to 3 decimal places

1	$0.03598 \div 1.06 =$
2	$217,854 \div 741 =$
3	$29.6704 \div 0.4864 =$
4	$214,996 \div 911 =$
5	$1.2939 \div 0.019 =$
6	$455,364 \div 91 =$
7	$3,984.24 \div 766.2 =$

(Note) Round to the nearest integer

8	$45 \div 0.093 =$
9	$4,998 \div 0.56 =$
10	$1,927 \div 2.05 =$
11	$84,730 \div 2,290 =$
12	$169,669 \div 443 =$
13	$215,424 \div 22 =$
14	$10,164 \div 96.8 =$
15	$493,172 \div 887 =$

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3 Kyu Sums (7 min)

No.		Name	
Date		Score	

1	2	3	4	5
1,509	9,210	2,690	708	1,230
297	5,082	-843	196	2,468
40,863	4,736	10,795	4,530	7,950
6,419	3,412	-6,523	2,947	-8,703
53,807	7,568	987	51,072	-1,294
312	9,705	60,413	683	9,756
80,496	2,041	254	84,932	4,861
572	6,839	-18,079	17,650	-2,053

6	7	8	9	10
24,087	6,098	8,093	40,923	7,602
563	-3,462	52,746	562	9,064
14,098	5,170	7,180	7,013	5,873
87,652	-2,719	936	70,359	-9,237
3,019	6,483	584	2,491	4,508
901	5,906	201	608	6,721
783	2,840	25,896	459	-8,105
6,254	-7,513	74,013	13,276	-6,394

11	12	13	14	15
3,470	501	60,592	1,086	8,609
2,591	7,056	405	7,625	-250
8,630	-4,132	287	4,093	734
7,128	985	819	9,158	45,198
6,540	97,012	2,374	6,320	70,319
5,931	30,546	30,156	7,431	-1,627
6,803	-68,491	1,920	6,902	950
2,947	-273	57,468	8,745	-86,342

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3 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)

3 Kyu Receipts (7 min)

3 Kyu Receipts (7 min)			
	2		1
(1)	9,647		(1) 902
(2)	437		(2) 1,046
(3)	125		(3) 267
(4)	269		(4) 5,987
(5)	283		(5) 534
	3		
(1)	174		
(2)	6,102		
(3)	781		
(4)	697		
(5)	8,659		

3 Kyu Receipts (7 min)

6		4	
(1)	<u>720</u>	(1)	<u>952</u>
(2)	<u>438</u>	(2)	<u>9,456</u>
(3)	<u>6,432</u>	(3)	<u>4,102</u>
(4)	<u>2,301</u>	(4)	<u>543</u>
(5)	<u>8,051</u>	(5)	<u>7,940</u>
7		5	
(1)	<u>1,063</u>	(1)	<u>8,163</u>
(2)	<u>352</u>	(2)	<u>5,790</u>
(3)	<u>9,056</u>	(3)	<u>7,845</u>
(4)	<u>120</u>	(4)	<u>6,485</u>
(5)	<u>7,143</u>	(5)	<u>367</u>

3 Kyu Receipts (7 min)

	9	8
(1)	<u>7,042</u>	(1) <u>3,856</u>
(2)	<u>4,219</u>	(2) <u>817</u>
(3)	<u>832</u>	(3) <u>930</u>
(4)	<u>901</u>	(4) <u>3,085</u>
(5)	<u>290</u>	(5) <u>901</u>
10		The next pages are questions (6)–(10).
(1)	<u>2,150</u>	
(2)	<u>5,982</u>	
(3)	<u>8,761</u>	
(4)	<u>4,650</u>	
(5)	<u>657</u>	

3 Kyu Receipts (7 min)

13		11	
(1)	92/	(1)	249
(2)	5,034	(2)	1,624
(3)	35/	(3)	6,925
(4)	483	(4)	917
(5)	2,785	(5)	1,794
14		12	
(1)	798	(1)	1,376
(2)	957	(2)	108
(3)	4,730	(3)	542
(4)	5,632	(4)	4,569
(5)	354	(5)	6,953

The next pages are questions (11)–(15).	15	(1) <u>853</u>
	(2) <u>583</u>	
	(3) <u>905</u>	
	(4) <u>273</u>	
		(5) <u>801</u>
	16	
	(1) <u>4,507</u>	
	(2) <u>360</u>	
	(3) <u>5,071</u>	
		(4) <u>6,052</u>
		(5) <u>2,085</u>
	17	
	(1) <u>6,304</u>	
	(2) <u>1,608</u>	
		(3) <u>986</u>
		(4) <u>4,107</u>
		(5) <u>635</u>

3 Kyu Receipts (7 min)

20		18	
(1)	<u>241</u>	(1)	<u>279</u>
(2)	<u>198</u>	(2)	<u>6,094</u>
(3)	<u>278</u>	(3)	<u>304</u>
(4)	<u>350</u>	(4)	<u>5,042</u>
(5)	<u>2,894</u>	(5)	<u>1,762</u>
21		19	
(1)	<u>3,697</u>	(1)	<u>9,065</u>
(2)	<u>620</u>	(2)	<u>5,271</u>
(3)	<u>6,547</u>	(3)	<u>1,832</u>
(4)	<u>1,539</u>	(4)	<u>726</u>
(5)	<u>389</u>	(5)	<u>5,140</u>

3 Kyu Receipts (7 min)

24		22	
(1)	<u>423</u>	(1)	<u>485</u>
(2)	<u>358</u>	(2)	<u>3,742</u>
(3)	<u>6,014</u>	(3)	<u>8,350</u>
(4)	<u>672</u>	(4)	<u>2,347</u>
(5)	<u>305</u>	(5)	<u>713</u>
		23	
		(1)	<u>7,830</u>
		(2)	<u>415</u>
		(3)	<u>235</u>
		(4)	<u>986</u>
		(5)	<u>7,062</u>

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3 Kyu Mental Calculation (3 min)

No.		Name	
Date		Score	

1	2	3	4	5
62	37	68	73	20
21	79	35	39	39
73	21	40	47	26
80	30	26	80	58
96	65	97	51	40
45	84	81	26	17

6	7	8	9	10
68	92	61	27	31
34	89	36	75	18
65	14	54	10	34
71	75	81	82	92
80	26	27	93	65
92	30	90	46	70

11	12	13	14	15
61	50	26	89	28
13	63	83	42	67
49	71	46	67	10
50	29	10	13	53
68	45	27	80	24
72	80	59	95	98

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3 Kyu Applied Calculation (10 min)

No.		Name	
Date		Score	

- (1) Find the missing number.
 $400 \div (631 - 581) = \square$

Answer

- (9) There are 5,790 pencils. Bundling them 45 at a time, how many bundles of 45 can be made?

Answer

- (2) Find the missing number.
 $\square \times 470 + 320 = 14,890$

Answer

- (10) Money collected from 950 people came to ¥42,750. How much was collected from each person?

Answer

- (3) Find the missing number.
 $321 \times 710 \div 30 = \square$

Answer

- (11) 127 items at ¥538 each were bought. What is the total price?

Answer

- (4) Find the missing number.
 $10\text{h } 57\text{min} + 2\text{h } 7\text{min} = \square\text{h } \square\text{min}$

Answer h min

- (12) Money collected from 32 people came to ¥14,976. How much was collected from each person?

Answer

Fill in the blanks in the table.

Unit price (yen)	Quantity	Total price (yen)
3,740	(5)	157,080
(6)	95	90,345
523	78	(7)

- (13) 3,071 marbles are put into bags of 41. How many are left over at the end?

Answer

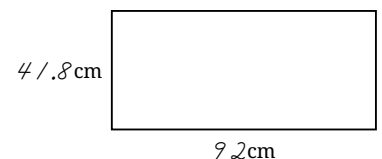
- (8) 410 students are going on a trip. How many buses seating 17 are needed?

Answer

- (14) 78 items at ¥914 each were bought. If ¥80,000 is handed over, how much change is there?

Answer

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



Answer

Answers 3 Kyu

Multiplication

1	<i>3,161,480</i>	6	<i>1,631,340</i>	11	<i>849,456</i>
2	<i>54.823</i>	7	<i>56.372</i>	12	<i>6,198,816</i>
3	<i>279.414</i>	8	<i>1,346,944</i>	13	<i>24,320</i>
4	<i>0.009</i>	9	<i>2,451,438</i>	14	<i>50,264</i>
5	<i>1,039,058</i>	10	<i>38</i>	15	<i>6,323</i>

Division

1	<i>0.034</i>	6	<i>5,004</i>	11	<i>37</i>
2	<i>294</i>	7	<i>5.2</i>	12	<i>383</i>
3	<i>61</i>	8	<i>484</i>	13	<i>9,792</i>
4	<i>236</i>	9	<i>8,925</i>	14	<i>105</i>
5	<i>68.1</i>	10	<i>940</i>	15	<i>556</i>

Sums

1	<i>184,275</i>	6	<i>137,357</i>	11	<i>44,040</i>
2	<i>48,593</i>	7	<i>12,803</i>	12	<i>63,204</i>
3	<i>49,694</i>	8	<i>169,649</i>	13	<i>154,021</i>
4	<i>162,718</i>	9	<i>135,691</i>	14	<i>51,360</i>
5	<i>14,215</i>	10	<i>10,032</i>	15	<i>37,591</i>

Receipts

1	<i>25,477</i>	6	<i>17,896</i>	11	<i>28,324</i>
2	<i>24,438</i>	7	<i>18,867</i>	12	<i>18,306</i>
3	<i>29,538</i>	8	<i>28,117</i>	13	<i>24,546</i>
4	<i>19,487</i>	9	<i>23,477</i>	14	<i>15,769</i>
5	<i>33,878</i>	10	<i>15,719</i>	15	<i>18,900</i>

Mental Calculation

1	<i>377</i>	6	<i>410</i>	11	<i>313</i>
2	<i>316</i>	7	<i>326</i>	12	<i>338</i>
3	<i>347</i>	8	<i>349</i>	13	<i>251</i>
4	<i>316</i>	9	<i>333</i>	14	<i>386</i>
5	<i>200</i>	10	<i>310</i>	15	<i>280</i>

Applied Calculation

1	<i>8</i>	6	<i>951</i>	11	<i>¥68,326</i>
2	<i>31</i>	7	<i>40,794</i>	12	<i>¥48</i>
3	<i>7,597</i>	8	<i>25 buses</i>	13	<i>37 items</i>
4	<i>/ 3h / 4min</i>	9	<i>/ 28 bundles</i>	14	<i>¥8,708</i>
5	<i>42</i>	10	<i>¥45</i>	15	<i>3,845.6 cm²</i>