

Soroban Technology Lab

3 Kyu Multiplication (7 min)

No.		Name	
Date		Score	

(Note) Round to 3 decimal places

1	$6,083 \times 829 =$
2	$0.2336 \times 0.018 =$
3	$0.03 \times 249.38 =$
4	$459 \times 6,220 =$
5	$6,842.2 \times 8.4 =$
6	$2,055 \times 130 =$
7	$116 \times 0.1985 =$

(Note) Round to the nearest integer

8	$6,926 \times 106 =$
9	$9,024 \times 0.012 =$
10	$811 \times 3.774 =$
11	$31 \times 7,431.6 =$
12	$585 \times 4,604 =$
13	$97,017 \times 0.63 =$
14	$7,440 \times 714 =$
15	$426 \times 2,595 =$

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3 Kyu Division (7 min)

No.		Name	
Date		Score	

(Note) Round to 3 decimal places

1	$15,162.1 \div 489.1 =$
2	$436,605 \div 65 =$
3	$171.296 \div 0.212 =$
4	$2.5717 \div 71.4 =$
5	$230,277 \div 3,903 =$
6	$0.09541 \div 0.047 =$
7	$386,912 \div 856 =$

(Note) Round to the nearest integer

8	$569,316 \div 908 =$
9	$176,800 \div 544 =$
10	$82,032 \div 1,709 =$
11	$7,072 \div 8.32 =$
12	$5,952 \div 0.75 =$
13	$3,809 \div 2.6 =$
14	$329,967 \div 363 =$
15	$6 \div 0.028 =$

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3 Kyu Sums (7 min)

No.		Name	
Date		Score	

1	2	3	4	5
910	7,820	60,973	6,809	8,073
379	305	-34,850	8,064	-5,610
60,824	186	-219	9,873	4,792
86,431	495	842	4,925	-6,879
1,729	9,817	7,065	3,018	1,534
84,051	43,602	-3,817	6,147	2,405
673	54,231	635	9,035	6,097
5,920	96,780	42,190	2,867	-3,218

6	7	8	9	10
1,708	8,204	4,018	908	63,021
6,049	-6,851	10,892	240	7,930
1,325	3,790	6,571	837	-5,048
9,651	9,053	21,054	1,506	-861
2,478	2,146	987	82,973	534
7,803	-8,790	830	16,457	927
2,341	-6,815	473	43,280	-10,576
6,059	7,432	29,165	5,916	92,834

11	12	13	14	15
3,250	7,809	4,603	9,380	5,032
7,065	1,043	710	207	805
9,528	8,562	28,564	18,546	71,693
8,403	-1,028	75,620	6,458	-374
5,269	5,796	91,483	27,913	10,658
6,417	4,135	4,631	102	-9,235
1,839	-7,643	895	369	428
5,702	-8,290	270	80,745	-67,910

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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)

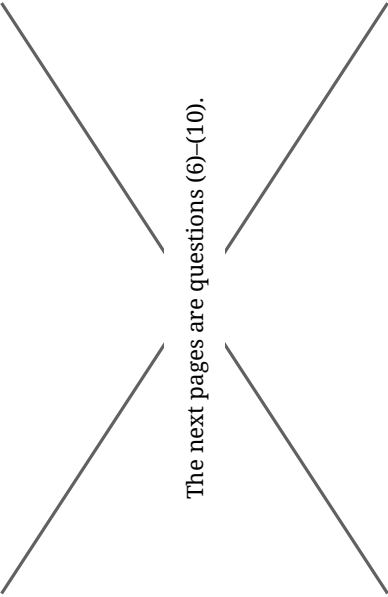
3 Kyu Receipts (7 min)

3 Kyu Receipts (7 min)			
		2	1
(1)	89 /		
(2)	1,396		
(3)	9,3 / 7		
(4)	379		
(5)	923		
		3	
(1)	276	(1)	5,906
(2)	487	(2)	8,214
(3)	286	(3)	563
(4)	5,043	(4)	1,492
(5)	1,306	(5)	184

3 Kyu Receipts (7 min)

6		4	
(1)	<u>780</u>	(1)	<u>3,524</u>
(2)	<u>430</u>	(2)	<u>7,543</u>
(3)	<u>893</u>	(3)	<u>9,620</u>
(4)	<u>6,285</u>	(4)	<u>516</u>
(5)	<u>7,051</u>	(5)	<u>692</u>
7		5	
(1)	<u>8,471</u>	(1)	<u>359</u>
(2)	<u>153</u>	(2)	<u>207</u>
(3)	<u>5,302</u>	(3)	<u>178</u>
(4)	<u>710</u>	(4)	<u>702</u>
(5)	<u>4,570</u>	(5)	<u>6,834</u>

3 Kyu Receipts (7 min)

	9	8
(1)	<u>640</u>	(1) <u>2,047</u>
(2)	<u>3,417</u>	(2) <u>9,028</u>
(3)	<u>694</u>	(3) <u>4,027</u>
(4)	<u>1,206</u>	(4) <u>3,674</u>
(5)	<u>1,276</u>	(5) <u>794</u>
10		
(1)	<u>4,852</u>	 The next pages are questions (6)-(10).
(2)	<u>152</u>	
(3)	<u>542</u>	
(4)	<u>430</u>	
(5)	<u>9,802</u>	

3 Kyu Receipts (7 min)

13		11	
(1)	<u>3 / 2</u>	(1)	<u>389</u>
(2)	<u>534</u>	(2)	<u>8,014</u>
(3)	<u>5,342</u>	(3)	<u>8,073</u>
(4)	<u>175</u>	(4)	<u>3,867</u>
(5)	<u>589</u>	(5)	<u>3,057</u>
14		12	
(1)	<u>6,721</u>	(1)	<u>7,451</u>
(2)	<u>9,620</u>	(2)	<u>5,923</u>
(3)	<u>1,760</u>	(3)	<u>618</u>
(4)	<u>2,349</u>	(4)	<u>681</u>
(5)	<u>6,940</u>	(5)	<u>174</u>

The next pages are questions (11)–(15).	15	(1) <u>7,032</u>
		(2) <u>408</u>
		(3) <u>4,135</u>
		(4) <u>294</u>
		(5) <u>692</u>
	16	(1) <u>906</u>
		(2) <u>196</u>
		(3) <u>803</u>
		(4) <u>1,059</u>
		(5) <u>184</u>
	17	(1) <u>1,709</u>
		(2) <u>953</u>
		(3) <u>674</u>
		(4) <u>5,137</u>
		(5) <u>4,037</u>

3 Kyu Receipts (7 min)

20		18	
(1)	<u>145</u>	(1)	<u>840</u>
(2)	<u>1,785</u>	(2)	<u>3,017</u>
(3)	<u>5,908</u>	(3)	<u>7,280</u>
(4)	<u>568</u>	(4)	<u>6,012</u>
(5)	<u>120</u>	(5)	<u>753</u>
21		19	
(1)	<u>8,612</u>	(1)	<u>5,063</u>
(2)	<u>256</u>	(2)	<u>6,140</u>
(3)	<u>634</u>	(3)	<u>397</u>
(4)	<u>2,197</u>	(4)	<u>485</u>
(5)	<u>85</u>	(5)	<u>5,462</u>

3 Kyu Receipts (7 min)

24		22	
(1)	<u>3,572</u>	(1)	<u>947</u>
(2)	<u>803</u>	(2)	<u>6,982</u>
(3)	<u>571</u>	(3)	<u>8,245</u>
(4)	<u>7,684</u>	(4)	<u>904</u>
(5)	<u>8,704</u>	(5)	<u>9,428</u>
23			
(1)		(1)	<u>736</u>
(2)		(2)	<u>278</u>
(3)		(3)	<u>9,062</u>
(4)		(4)	<u>290</u>
(5)		(5)	<u>379</u>

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3 Kyu Mental Calculation (3 min)

No.		Name	
Date		Score	

1	2	3	4	5
90	34	97	96	61
29	95	42	25	79
64	47	83	68	62
57	10	69	90	80
81	86	15	13	54
30	32	70	74	31

6	7	8	9	10
43	47	52	38	89
54	92	81	87	42
80	13	25	10	96
67	40	97	52	15
91	86	43	93	38
32	75	60	46	70

11	12	13	14	15
74	41	60	90	95
87	54	91	39	57
96	93	74	86	36
23	16	65	10	21
50	87	20	25	90
14	20	83	47	48

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3 Kyu Applied Calculation (10 min)

No.		Name	
Date		Score	

- (1) Find the missing number.

$$758 \times (640 + 65) = \square$$

Answer

- (9) One box weighs 590g. How much do 873 boxes weigh, in g?

Answer

- (2) Find the missing number.

$$\square \times 902 - 530 = 51,786$$

Answer

- (10) 3,5/8 pencils are shared equally among 94 people, giving out as many as possible. How many pencils are left?

Answer

- (3) Find the missing number.

$$385 \times 360 \div 50 = \square$$

Answer

- (11) 69 items at ¥695 each were bought. If ¥50,000 is handed over, how much change is there?

Answer

- (4) Find the missing number.

$$3\text{h } 4/\text{min} - 7\text{h } 46\text{min} = \square \text{ h } \square \text{ min}$$

Answer h min

- (12) There are 980 items. Putting 23 in each box, how many boxes are needed to hold them all?

Answer

Fill in the blanks in the table.

Unit price (yen)	Quantity	Total price (yen)
(5)	86	6,708
265	40	(6)
109	(7)	4,905

- (13) 3,079 items are put into boxes, 205 in each. How many boxes of 205 can be filled?

Answer

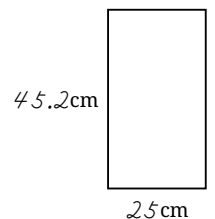
- (8) 249 items at ¥34/ each were bought. What is the total price?

Answer

- (14) 8/2 items cost ¥56,028. How much was one?

Answer

- (15) What is the area of the rectangle on the right, in cm²?



Answer

Answers 3 Kyu

Multiplication

1	5,042,807	6	267,150	11	230,380
2	0.004	7	23,026	12	2,693,340
3	7.481	8	734,156	13	61,121
4	2,854,980	9	108	14	5,312,160
5	57,474.48	10	3,061	15	1,105,470

Division

1	31	6	2.03	11	850
2	6,717	7	452	12	7,936
3	808	8	627	13	1,465
4	0.036	9	325	14	909
5	59	10	48	15	214

Sums

1	240,917	6	37,414	11	47,473
2	213,236	7	8,169	12	10,384
3	72,819	8	73,990	13	206,776
4	50,738	9	152,117	14	143,720
5	7,194	10	148,761	15	11,097

Receipts

1	22,254	6	28,303	11	21,624
2	27,458	7	28,264	12	20,214
3	30,186	8	21,967	13	32,771
4	18,801	9	10,061	14	23,277
5	22,354	10	22,714	15	29,698

Mental Calculation

1	351	6	367	11	344
2	304	7	353	12	311
3	376	8	358	13	393
4	366	9	326	14	297
5	367	10	350	15	347

Applied Calculation

1	534,390	6	10,600	11	¥2,045
2	58	7	45	12	43 boxes
3	2,772	8	¥84,909	13	15 boxes
4	/h 55min	9	515,070g	14	¥69
5	78	10	40 pencils	15	1,130 cm ²