

Soroban Technology Lab

2 Kyu Multiplication (7 min)

No.		Name	
Date		Score	

(Note) Round to 3 decimal places

1	$7,502 \times 0.3557 =$
2	$0.77628 \times 0.022 =$
3	$885 \times 44,980 =$
4	$14.38 \times 8.425 =$
5	$1,673 \times 5,287 =$
6	$50,254 \times 581 =$
7	$0.0772 \times 760.7 =$

(Note) Round to the nearest integer

8	$817 \times 0.71505 =$
9	$9,366 \times 6,654 =$
10	$2,025 \times 3,371 =$
11	$616 \times 40,492 =$
12	$6,091 \times 0.0783 =$
13	$1,960 \times 118.3 =$
14	$99,182 \times 5.36 =$
15	$9,464 \times 3,893 =$

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2 Kyu Division (7 min)

No.		Name	
Date		Score	

(Note) Round to 3 decimal places

1	$3,625.544 \div 98.2 =$
2	$1,288,494 \div 2,889 =$
3	$3.82033 \div 2.0107 =$
4	$1,389,696 \div 352 =$
5	$0.0264684 \div 0.7969 =$
6	$3,412,980 \div 566 =$
7	$3.58595 \div 0.07 =$

(Note) Round to the nearest integer

8	$9 \div 0.09159 =$
9	$1,350,035 \div 193 =$
10	$1,029,315 \div 105 =$
11	$4,068,526 \div 6,377 =$
12	$4,372 \div 0.455 =$
13	$27,249 \div 73.25 =$
14	$838,203 \div 3,093 =$
15	$295,029 \div 6.3 =$

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2 Kyu Sums (7 min)

No.		Name	
Date		Score	

1	2	3	4	5
40,867	4,685	74,395	270,168	41,562
278,356	901,257	-96,041	734,816	85,601
5,243	4,372	30,457	1,024	-9,036
908,174	60,821	84,210	9,346	-84,752
3,295	504,789	-6,175	7,821	27,381
10,639	13,462	9,238	20,953	4,609
2,817	1,806	67,190	3,074	-17,438
6,405	7,359	-53,842	95,816	50,296

6	7	8	9	10
9,605	502,168	342,078	83,701	13,740
8,147	68,354	-129,365	37,158	-4,582
6,810	4,172	-5,417	83,570	3,275
74,395	8,901	7,068	2,495	-10,896
542,786	9,460	-80,351	40,823	36,741
9,032	27,853	2,049	1,976	28,059
812,397	672,315	1,864	72,134	-56,103
51,406	4,890	23,975	95,806	49,872

11	12	13	14	15
50,346	497,605	901,246	8,149	31,052
12,905	-13,527	3,985	320,457	70,564
71,639	2,416	6,128	-76,209	94,318
8,124	69,308	70,456	84,153	40,276
46,297	-3,071	104,293	-9,862	2,957
30,578	4,259	48,759	7,510	13,486
1,340	3,924	7,328	-120,658	7,309
92,586	-610,875	1,065	4,397	26,851

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2 Kyu Receipts (7 min)

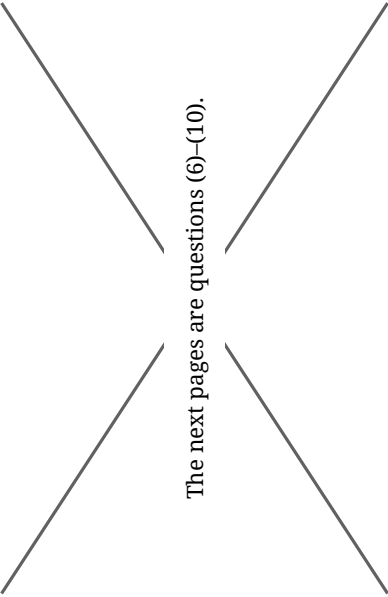
No.		Name	
Date		Score	

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

2 Kyu Receipts (7 min)			
(1)	<u>4,013</u>	(1)	<u>73,926</u>
(2)	<u>87,023</u>	(2)	<u>906</u>
(3)	<u>568</u>	(3)	<u>40,912</u>
(4)	<u>60,945</u>	(4)	<u>673</u>
(5)	<u>78,590</u>	(5)	<u>246</u>
(1)	<u>605</u>	(1)	<u>73,926</u>
(2)	<u>96,230</u>	(2)	<u>906</u>
(3)	<u>5,906</u>	(3)	<u>40,912</u>
(4)	<u>59,164</u>	(4)	<u>673</u>
(5)	<u>46,389</u>	(5)	<u>246</u>

2 Kyu Receipts (7 min)

6		4	
(1)	<u>450</u>	(1)	<u>93,864</u>
(2)	<u>9,186</u>	(2)	<u>7,865</u>
(3)	<u>51,362</u>	(3)	<u>48,571</u>
(4)	<u>3,475</u>	(4)	<u>26,037</u>
(5)	<u>50,678</u>	(5)	<u>9,027</u>
7		5	
(1)	<u>45,169</u>	(1)	<u>20,738</u>
(2)	<u>52,817</u>	(2)	<u>90,743</u>
(3)	<u>7,035</u>	(3)	<u>82,630</u>
(4)	<u>810</u>	(4)	<u>35,208</u>
(5)	<u>19,432</u>	(5)	<u>1,302</u>

	9	8
(1)	<u>3,8 / 7</u>	(1) <u>1,758</u>
(2)	<u>3,024</u>	(2) <u>724</u>
(3)	<u>4 / 0</u>	(3) <u>293</u>
(4)	<u>5,92 /</u>	(4) <u>9,572</u>
(5)	<u>70,563</u>	(5) <u>357</u>
	10	
(1)	<u>30,64 /</u>	 The next pages are questions (6)–(10).
(2)	<u>5,380</u>	
(3)	<u>10,854</u>	
(4)	<u>28,0 / 7</u>	
(5)	<u>56, / 92</u>	

2 Kyu Receipts (7 min)

13		11	
(1)	<u>16,508</u>	(1)	<u>7,452</u>
(2)	<u>764</u>	(2)	<u>14,905</u>
(3)	<u>874</u>	(3)	<u>2,906</u>
(4)	<u>30,941</u>	(4)	<u>3,268</u>
(5)	<u>4,280</u>	(5)	<u>3,916</u>
14		12	
(1)	<u>632</u>	(1)	<u>740</u>
(2)	<u>425</u>	(2)	<u>32,896</u>
(3)	<u>91,367</u>	(3)	<u>57,261</u>
(4)	<u>360</u>	(4)	<u>64,175</u>
(5)	<u>976</u>	(5)	<u>72,438</u>

The next pages are questions (11)–(15).	15	(1) <u>52,849</u>
		(2) <u>26,139</u>
		(3) <u>3,015</u>
		(4) <u>789</u>
		(5) <u>102</u>
	16	(1) <u>95,073</u>
		(2) <u>50,497</u>
		(3) <u>56,938</u>
		(4) <u>27,804</u>
		(5) <u>78,051</u>
	17	(1) <u>90,241</u>
		(2) <u>5,483</u>
		(3) <u>987</u>
		(4) <u>90,432</u>
		(5) <u>589</u>

2 Kyu Receipts (7 min)

20		18	
(1)	<u>54,876</u>	(1)	<u>27,450</u>
(2)	<u>3,690</u>	(2)	<u>47,605</u>
(3)	<u>68,542</u>	(3)	<u>28,104</u>
(4)	<u>93,240</u>	(4)	<u>1,608</u>
(5)	<u>96,840</u>	(5)	<u>49,278</u>
21		19	
(1)	<u>208</u>	(1)	<u>8,563</u>
(2)	<u>8/3</u>	(2)	<u>90,271</u>
(3)	<u>5,089</u>	(3)	<u>690</u>
(4)	<u>7,138</u>	(4)	<u>69,823</u>
(5)	<u>8,321</u>	(5)	<u>50,726</u>

2 Kyu Receipts (7 min)

24		22	
(1)	<u>74 /</u>	(1)	<u>3,09 /</u>
(2)	<u>35,64 /</u>	(2)	<u>425</u>
(3)	<u>30, / 75</u>	(3)	<u>42,35 /</u>
(4)	<u>596</u>	(4)	<u>13,057</u>
(5)	<u>9,602</u>	(5)	<u>71,036</u>
		23	
		(1)	<u>69,3 / 4</u>
		(2)	<u>12,087</u>
		(3)	<u>7,5 / 6</u>
		(4)	<u>672</u>
		(5)	<u>85 /</u>

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2 Kyu Mental Calculation (3 min)

No.		Name	
Date		Score	

1	2	3	4	5
68	98	70	802	24
14	460	298	946	956
69	795	76	34	218
30	21	-153	25	-79
821	63	-90	80	30
754	84	24	71	-64

6	7	8	9	10
70	506	21	80	17
394	25	38	-71	52
72	834	92	597	706
41	-61	147	20	35
506	70	680	-613	291
38	-29	35	48	84

11	12	13	14	15
41	423	15	153	31
98	-52	60	75	29
45	475	97	291	57
718	91	806	40	-82
306	-86	43	63	401
29	30	521	78	-396

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2 Kyu Applied Calculation (10 min)

No.		Name	
Date		Score	

- (1) Find the missing number.

$$18,040 + 5,076 \times 23 = \square$$

Answer

- (2) Find the missing number.

$$\square \times 2,039 - 493 = 1,636,824$$

Answer

- (3) Round each number to two significant figures before calculating. Give the answer to two significant figures as well.

$$63,890 \times 8,903$$

Answer

- (4) Calculate the following. (Round to the nearest yen.)

$$¥4,670 \times \frac{94}{365}$$

Answer

Fill in the blanks in the table. (The markup rate is the rate on the cost price.)

Cost price (yen)	Markup rate (%)	Profit (yen)	List price (yen)
689,500	17	(5)	
167,200	32		(6)
259,100	(7)	36,274	
(8)	15		27,945

- (9) An item priced at ¥92,500 was bought with a discount of 28%. How much was paid including consumption tax? The consumption tax rate is 10%.

Answer

- (10) 907 items were bought with ¥20,000, and the change was ¥8,209. How much was one?

Answer

- (11) How many yen is \$53.72? Take \$/ = ¥104. (Round down to the nearest yen.)

Answer

- (12) How many dollars is ¥72,000? Take \$/ = ¥91. (Round down to the nearest dollar.)

Answer

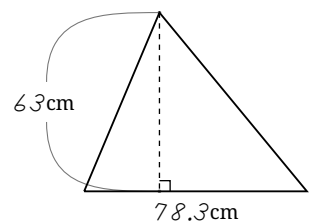
- (13) ¥30,261 was paid including consumption tax. What was the price of this item before tax? The consumption tax rate is 10%.

Answer

- (14) What is the average of the weights 62.5kg, 92.6kg, 83.5kg, 20.5kg, 25.1kg? (Round the kilograms to one decimal place.)

Answer

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



Answer

Answers 2 Kyu

Multiplication

1	<u>2,668.461</u>	6	<u>29,197,574</u>	11	<u>24,943,072</u>
2	<u>0.017</u>	7	<u>58.726</u>	12	<u>477</u>
3	<u>39,807,300</u>	8	<u>584</u>	13	<u>231,868</u>
4	<u>121.152</u>	9	<u>62,321,364</u>	14	<u>531,616</u>
5	<u>8,845,151</u>	10	<u>6,826,275</u>	15	<u>36,843,352</u>

Division

1	<u>36.92</u>	6	<u>6,030</u>	11	<u>638</u>
2	<u>446</u>	7	<u>51.228</u>	12	<u>9,609</u>
3	<u>1.9</u>	8	<u>98</u>	13	<u>372</u>
4	<u>3,948</u>	9	<u>6,995</u>	14	<u>271</u>
5	<u>0.033</u>	10	<u>9,803</u>	15	<u>46,830</u>

Sums

1	<u>1,255,796</u>	6	<u>1,514,578</u>	11	<u>313,815</u>
2	<u>1,498,551</u>	7	<u>1,298,113</u>	12	<u>-49,961</u>
3	<u>109,432</u>	8	<u>161,901</u>	13	<u>1,143,260</u>
4	<u>1,143,018</u>	9	<u>417,663</u>	14	<u>217,937</u>
5	<u>98,223</u>	10	<u>60,106</u>	15	<u>286,813</u>

Receipts

1	<u>240,523</u>	6	<u>207,712</u>	11	<u>254,484</u>
2	<u>345,494</u>	7	<u>134,030</u>	12	<u>196,015</u>
3	<u>237,277</u>	8	<u>223,625</u>	13	<u>183,454</u>
4	<u>195,884</u>	9	<u>161,275</u>	14	<u>276,566</u>
5	<u>206,021</u>	10	<u>286,518</u>	15	<u>287,243</u>

Mental Calculation

1	<u>1,756</u>	6	<u>1,121</u>	11	<u>1,237</u>
2	<u>1,521</u>	7	<u>1,345</u>	12	<u>881</u>
3	<u>225</u>	8	<u>1,013</u>	13	<u>1,542</u>
4	<u>1,958</u>	9	<u>61</u>	14	<u>700</u>
5	<u>1,085</u>	10	<u>1,185</u>	15	<u>40</u>

Applied Calculation

1	<u>134,788</u>	6	<u>220,704</u>	11	<u>¥5,586</u>
2	<u>803</u>	7	<u>14</u>	12	<u>\$791</u>
3	<u>570,000,000</u>	8	<u>24,300</u>	13	<u>¥27,510</u>
4	<u>¥1,203</u>	9	<u>¥73,260</u>	14	<u>56.8kg</u>
5	<u>117,215</u>	10	<u>¥13</u>	15	<u>2,466.45 cm²</u>