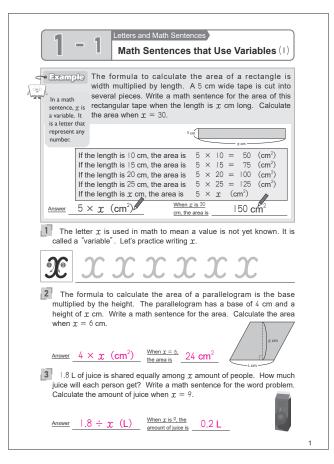


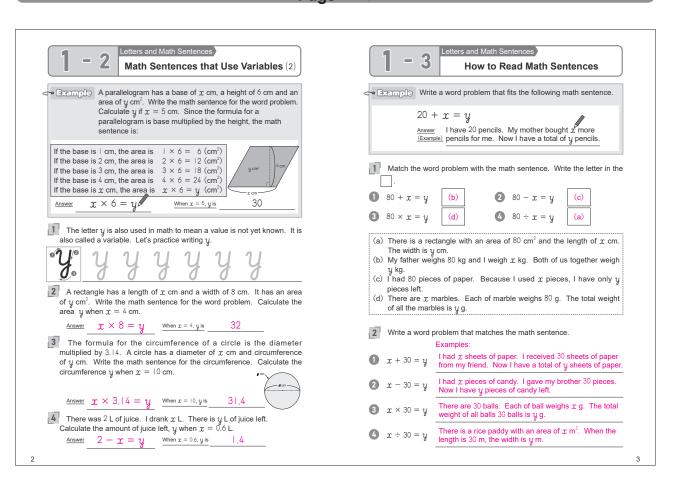


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Letters and Math Sentences - 4 Review Write a math sentences for the following word problems. 1 2.4 L of milk is divided into x glasses equally. How much milk does each glass contain? Answer $2.4 \div x$ (L) 2 My older sister is x years old. My younger sister is 7 years old. What is the difference between their ages? Answer x-7 (years old) 3 A triangle has a base of 3 cm and a height of x cm. What is the area of The formula for calculating the area of a triangle is $\frac{1}{2}$ multiplied by the base multiplied Answer $3 \times x \div 2$ (cm²) by the height. 2 Calculate the following problems. One orange weighs $0.2~{\rm kg}$. The box weighs $0.6~{\rm kg}$. How much does the box weigh when x oranges are put into the box? Write the math sentence to calculate the box's total weight. Answer $0.2 \times x + 0.6$ (kg) 2 If there are 10 oranges into a box, what is the total weight? $0.2 \times 10 + 0.6 = 2 + 0.6 = 2.6$ Answer 3 If there are 20 oranges into a box, what is the total weight? $0.2 \times 20 + 0.6 = 4 + 0.6 = 4.6$ Answer 4.6 kg Write the math sentence for the word problem. There were x pencils to be shared equally among 4 students. Each student received y pencils. $x \div 4 = y$ Answer 2 There are 20 questions on a math practice sheet. I already solved $oldsymbol{x}$ questions. I have y questions left.

There are x cans of juice. Each can contains 240 mL. The total amount of juice is y mL.

 $240 \times x = y$

 \mathcal{L}_{x} kg of sand is put into a container that weighs 0.3 kg. The total weight is ų kg.

x + 0.3 = yAnswer

There are 6 marbles. One marble weighs x g. Six marbles weight y g.

1 Write a math sentence showing the relationship between x and y.

2 When x = 6.5, what is y?

Answer 39 (g)

 $6.5 \times 6 = 39$ **3** When y = 26.4, what is x?

 $r \times 6 = 26.4$ $26.4 \div 6 = 4.4$

Answer 4.4 (g)

Match the word problem with the math sentence. Write the letter in the .

(d) 2 50 - x = y

(a)

(b) **4** 50 ÷ x = y

(c)

(a) There are 50 pieces of paper. x pieces have been used. There are ypieces of paper left.

(b) My school rented school buses for a trip. Each bus has 50 seats. The school rented x buses, y students can attend the trip.

(c) There is a rectangle flowerbed with an area of 50 m² and the length of

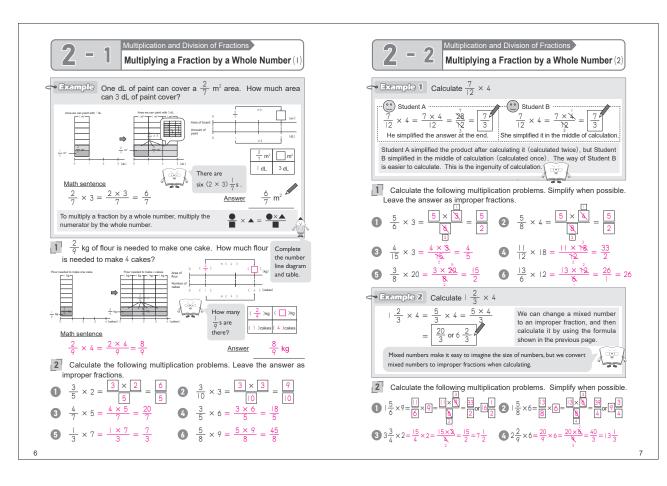
x m. The width of this flowerbed is y m. (d) There are 50 male students and x female students. y is the total

number of students.

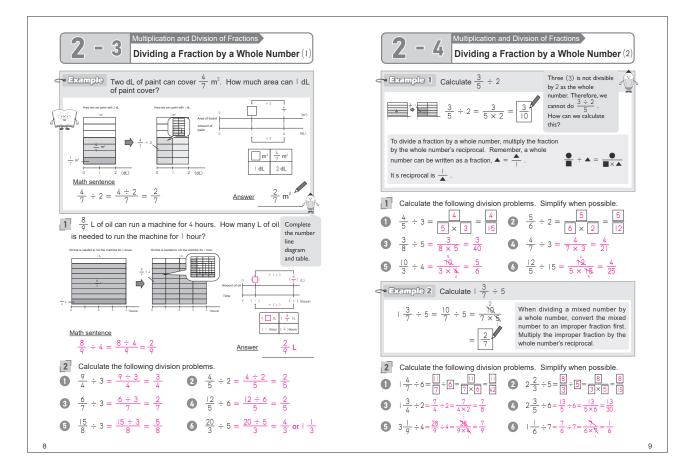
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20 - x = y

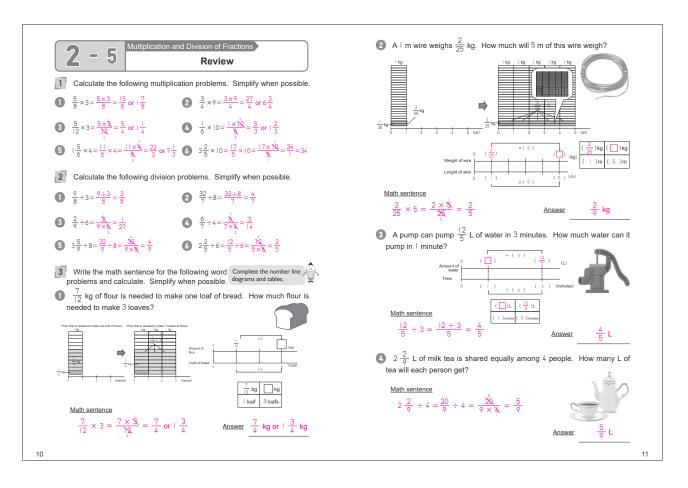
Answer



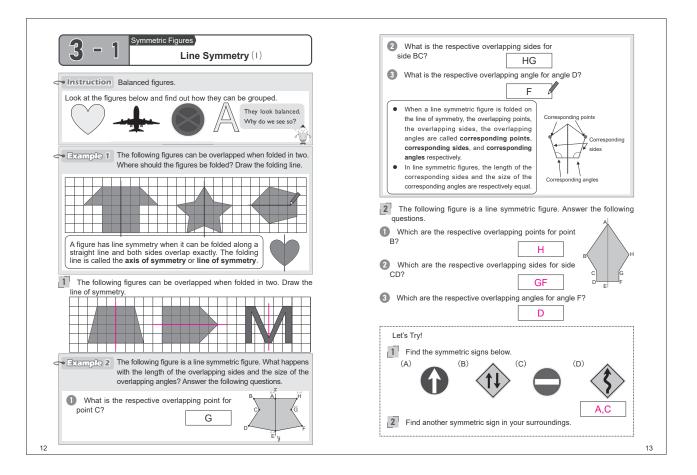
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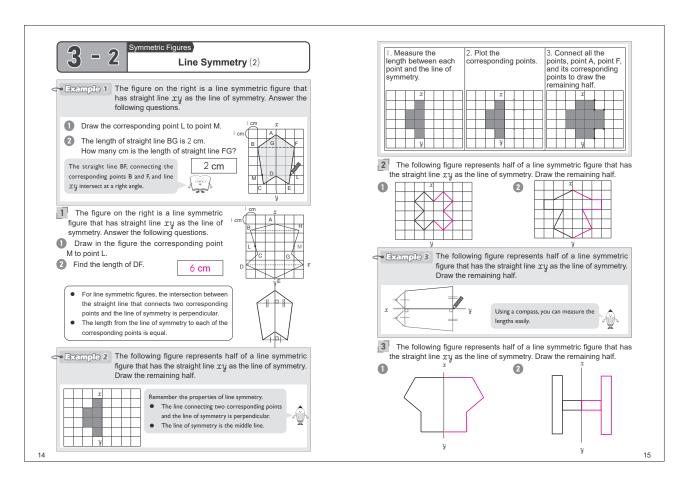
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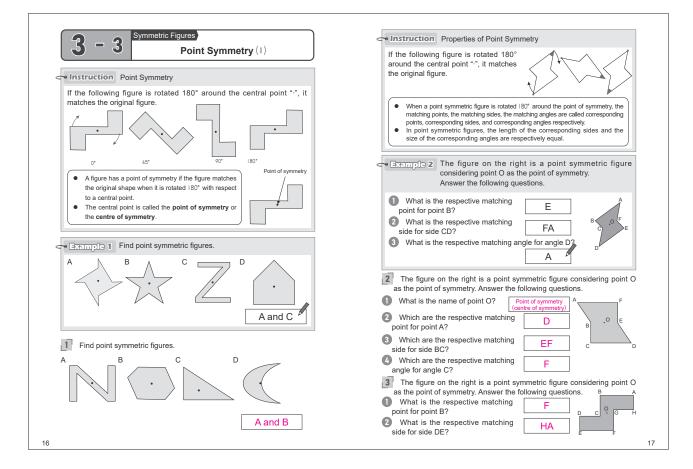
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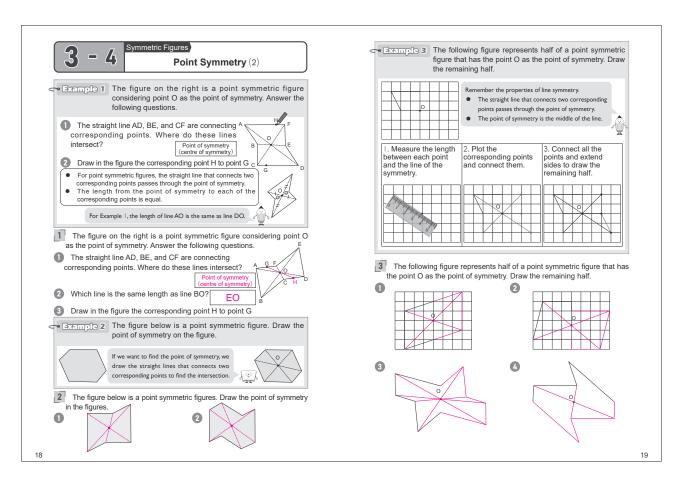
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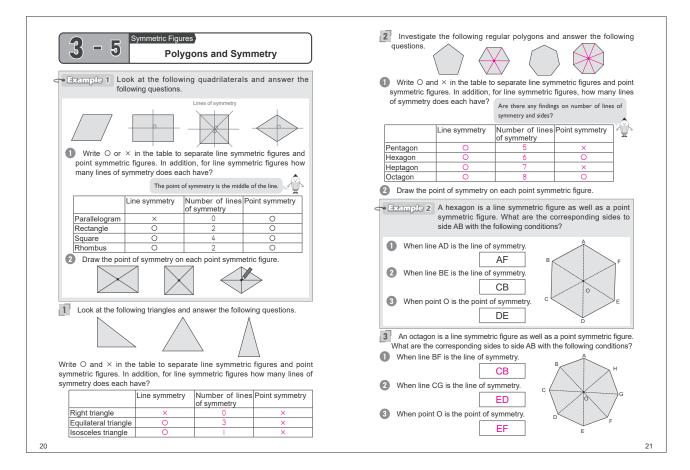


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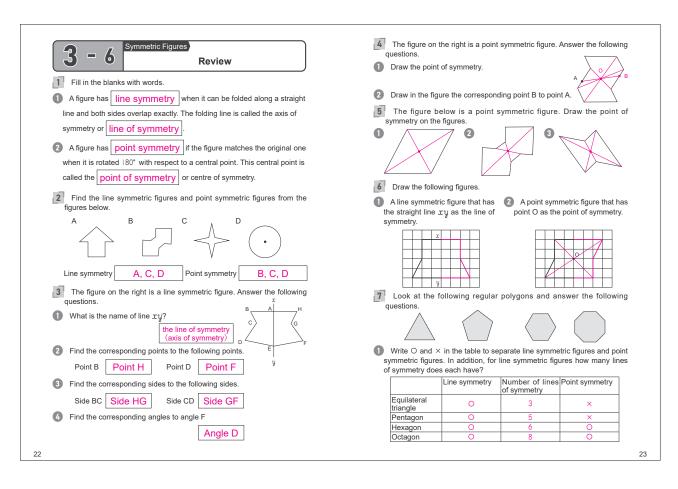


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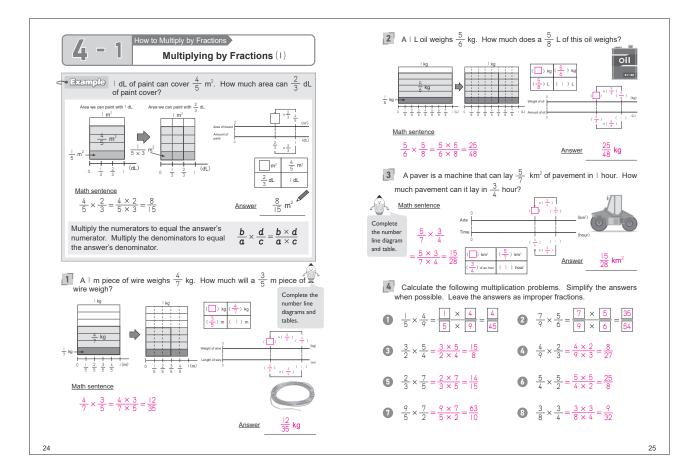
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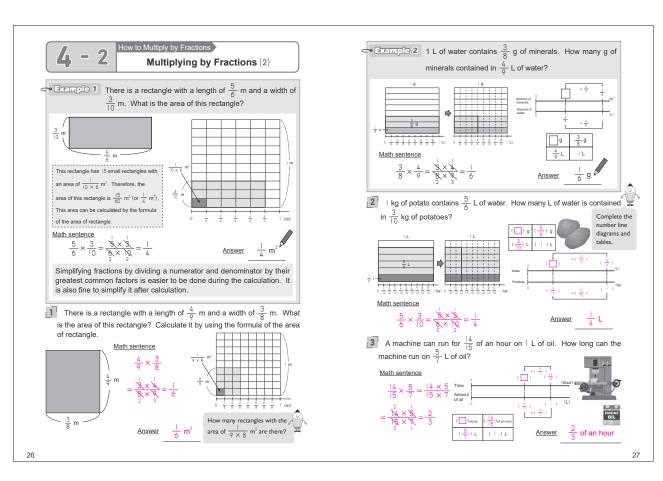
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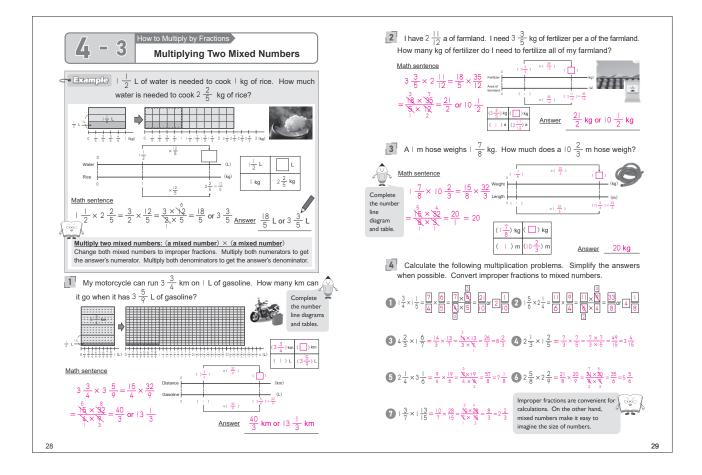
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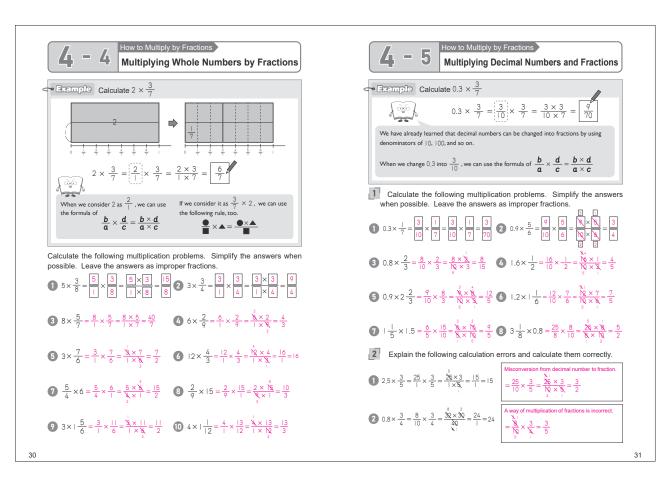
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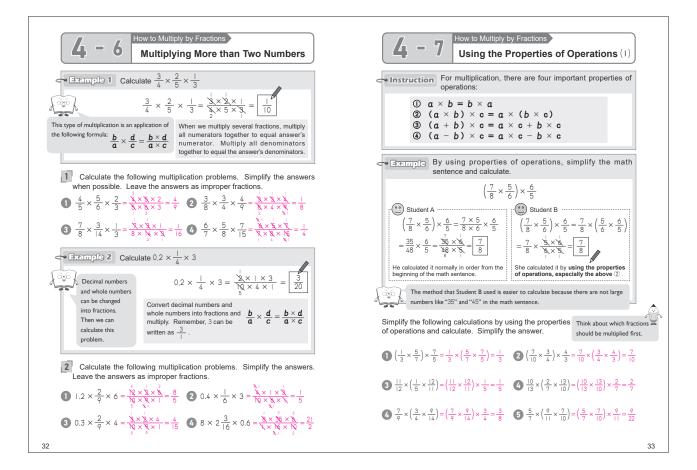
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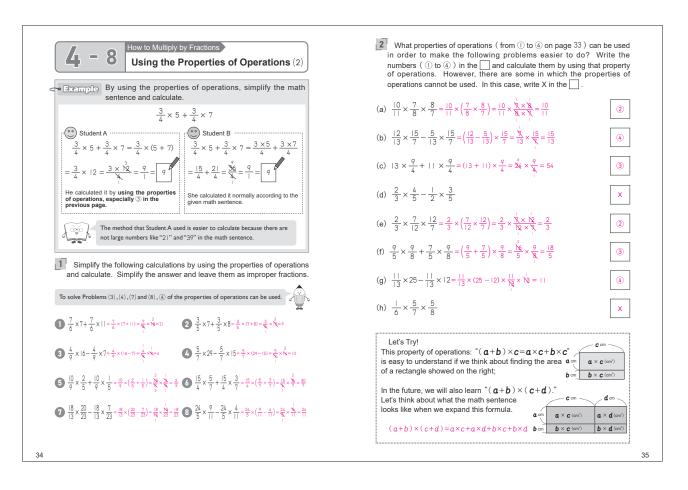
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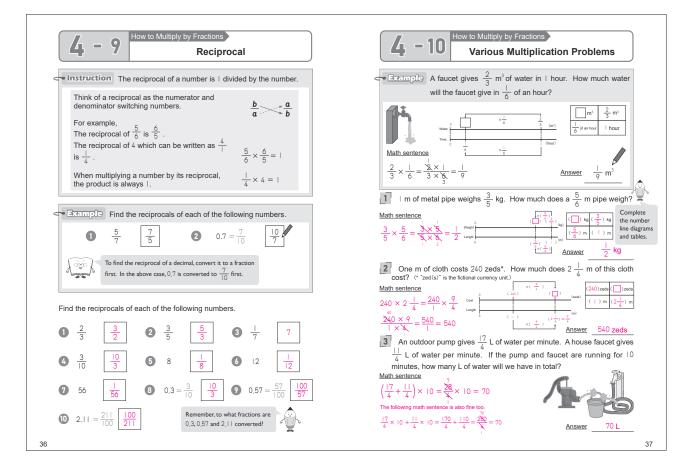
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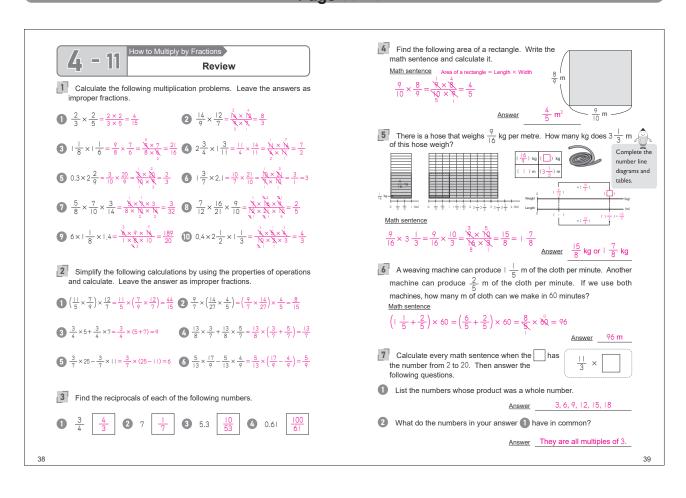
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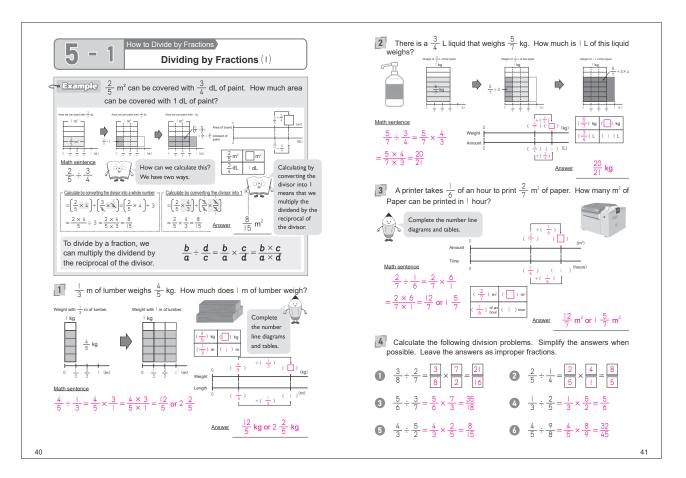
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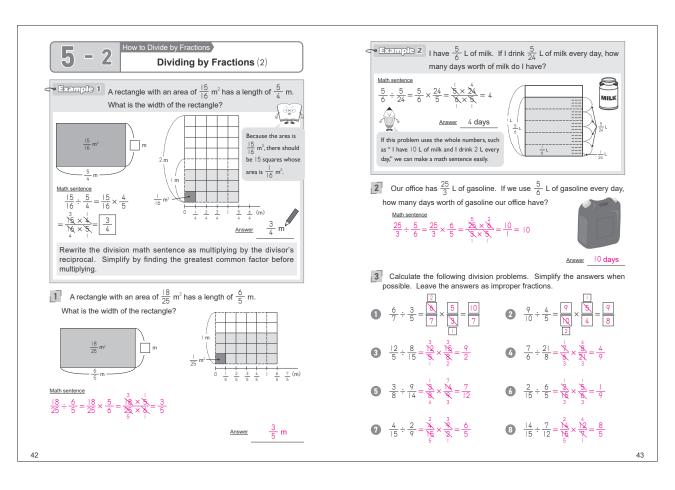
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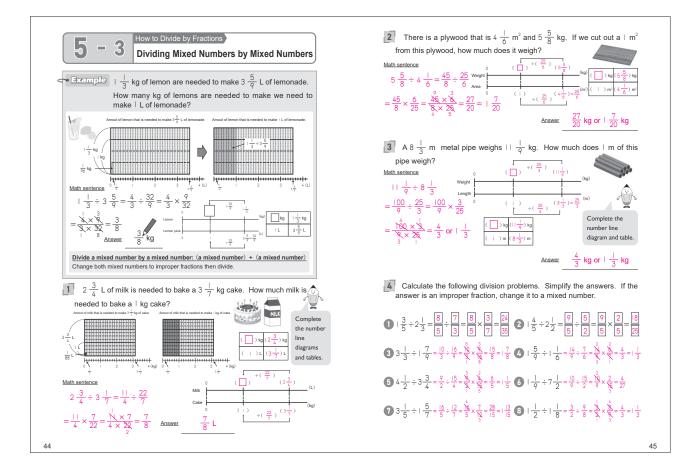
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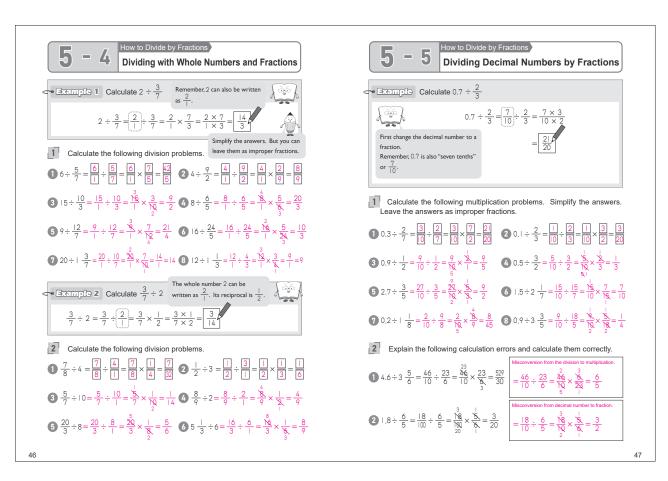
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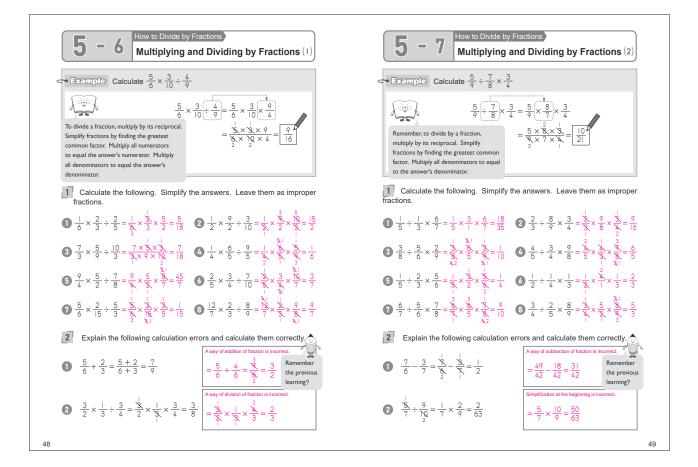
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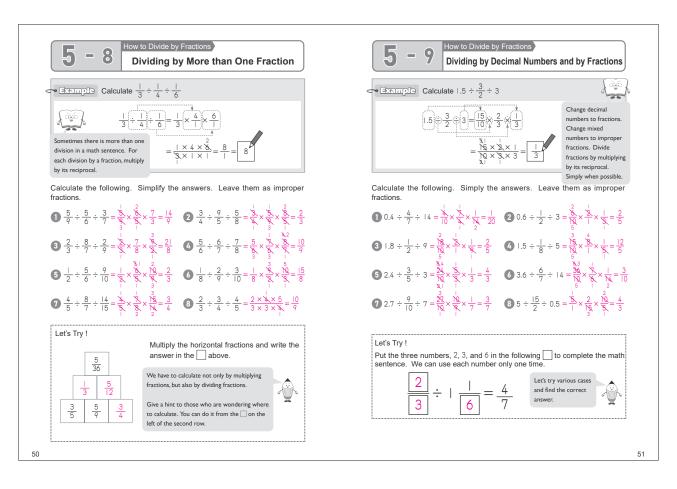
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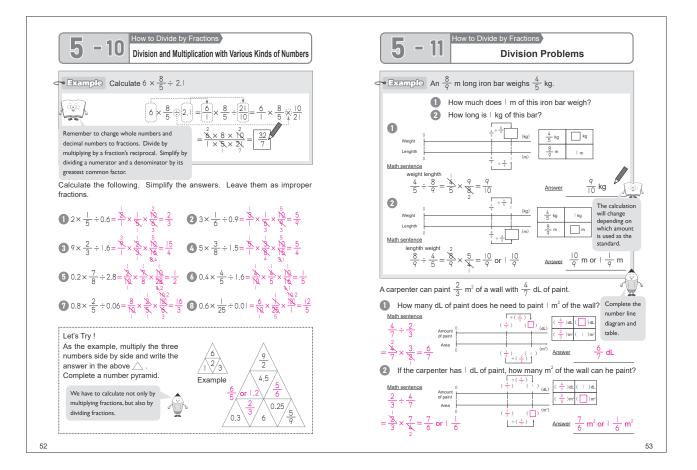
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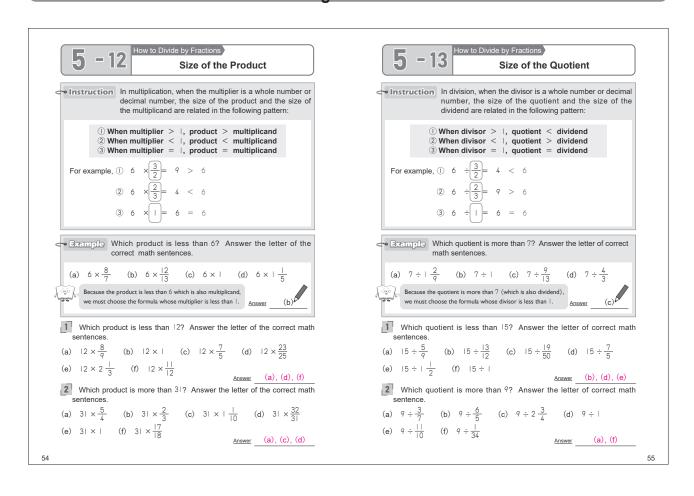
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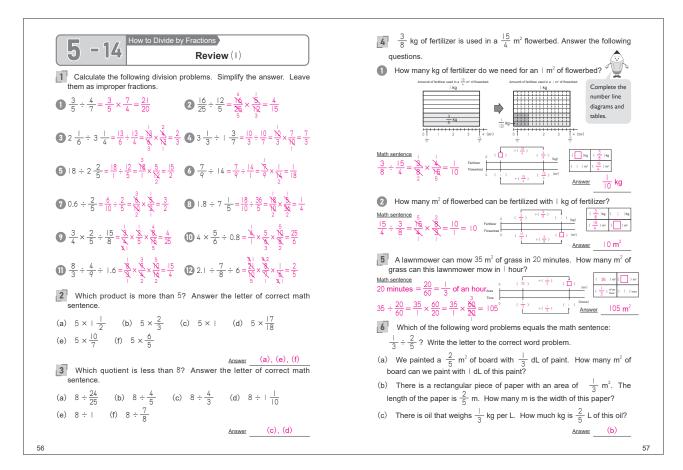
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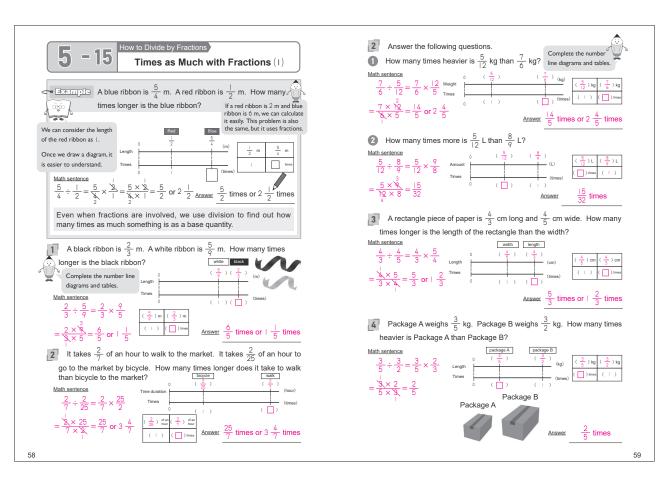
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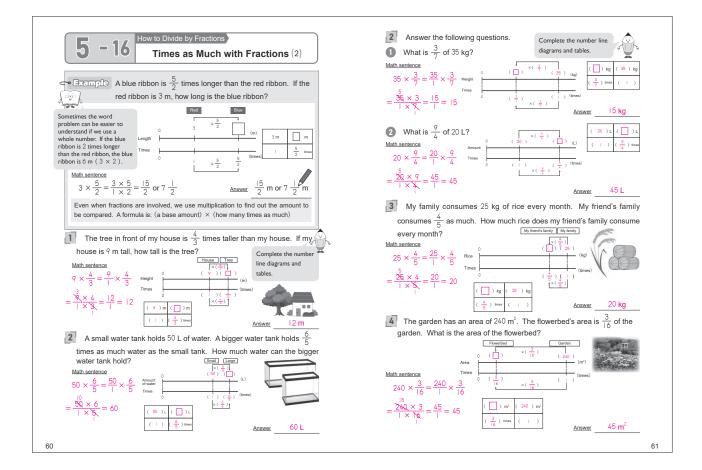
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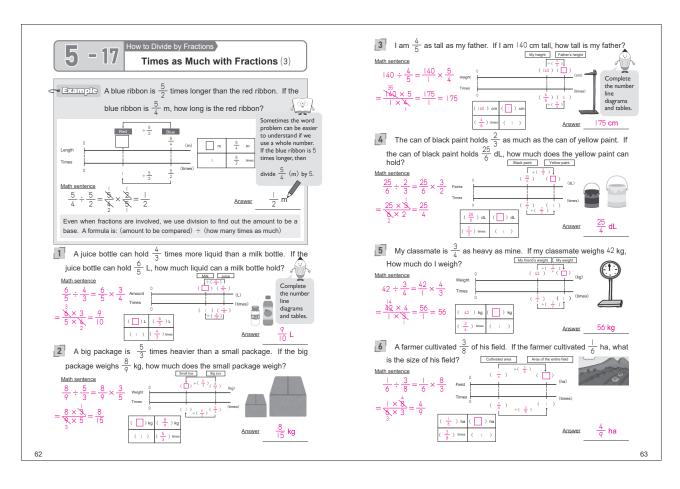
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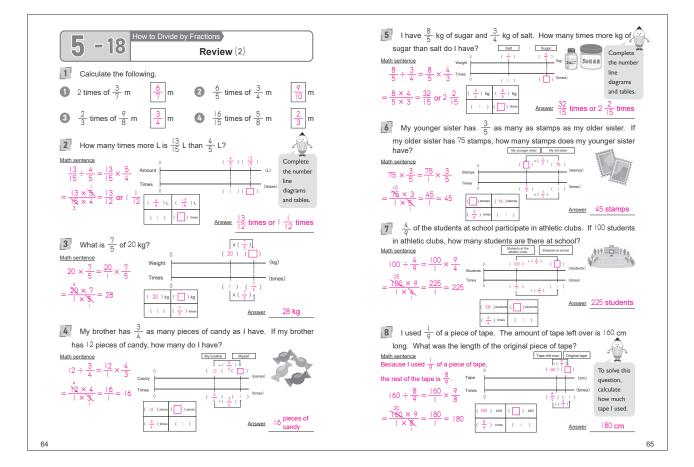
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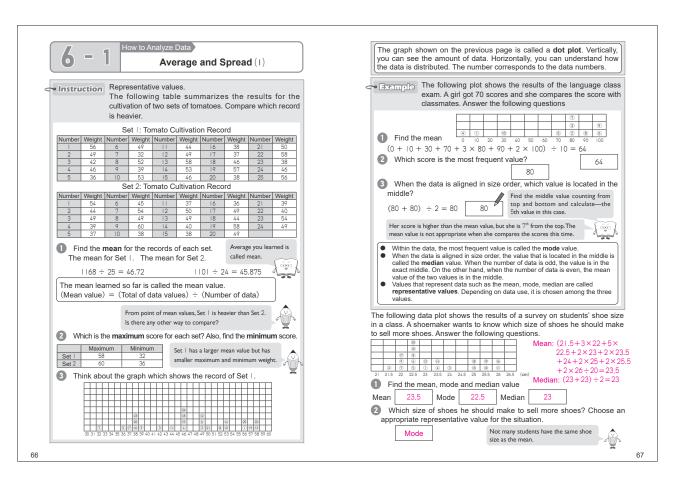
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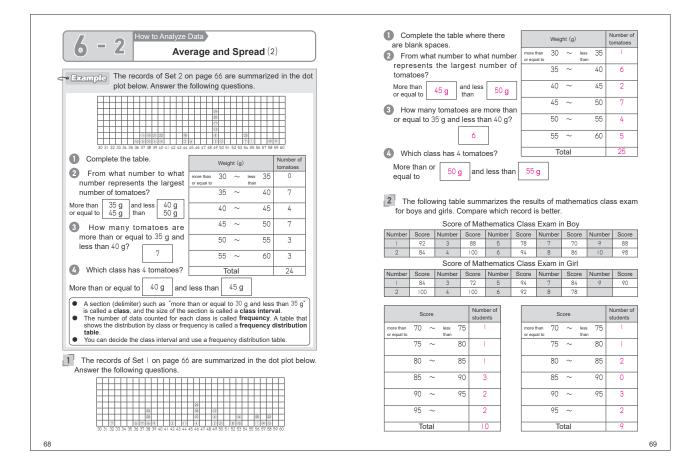


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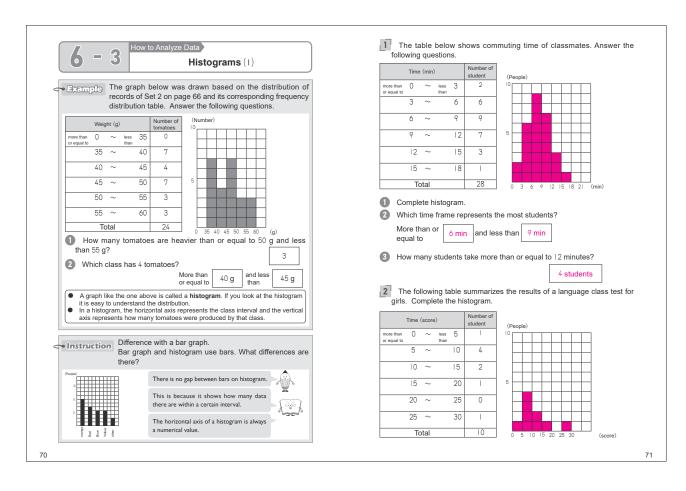


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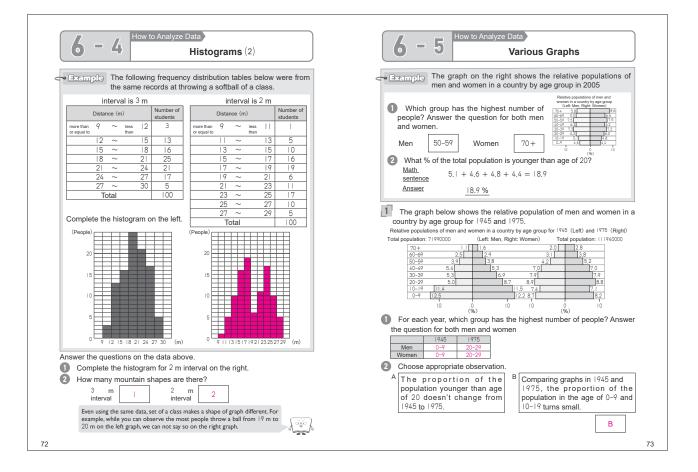


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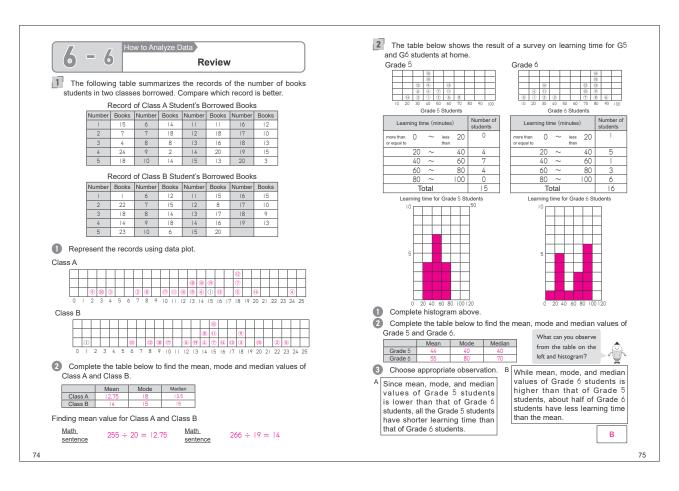


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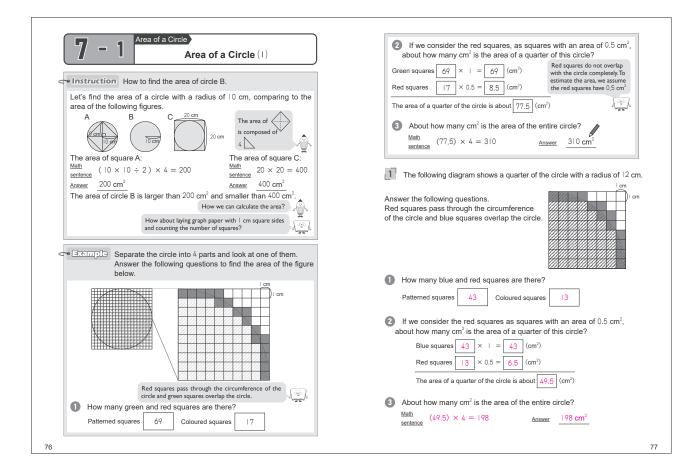


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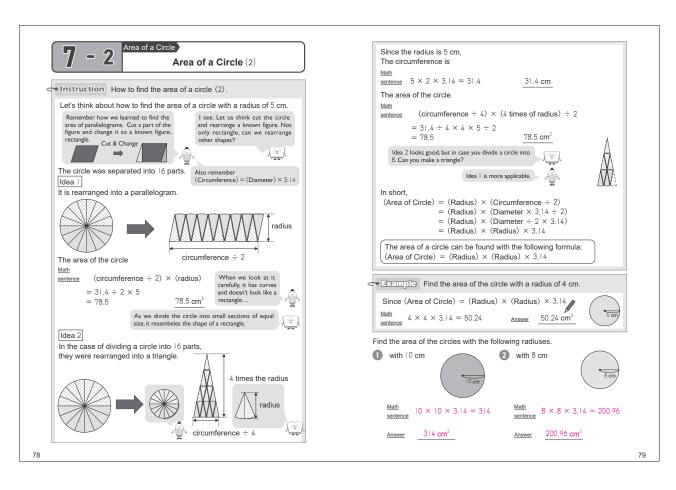


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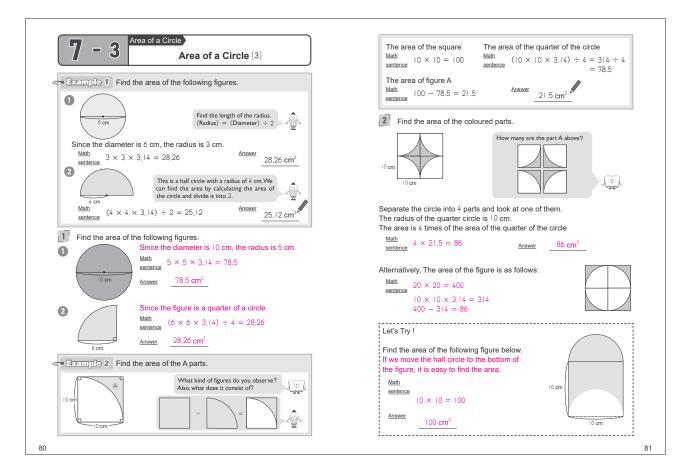
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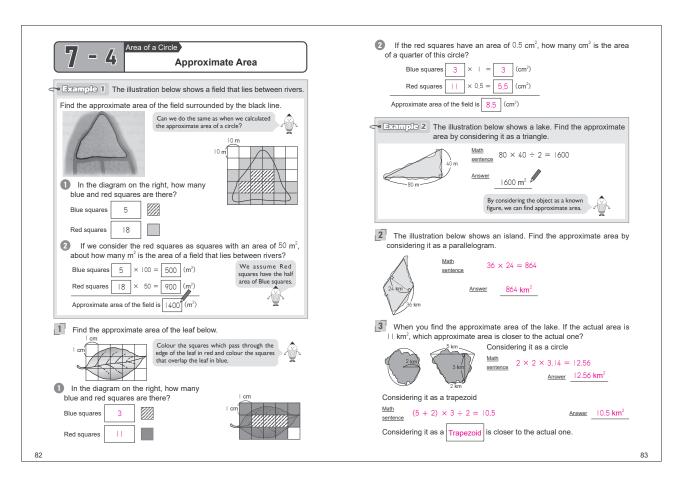
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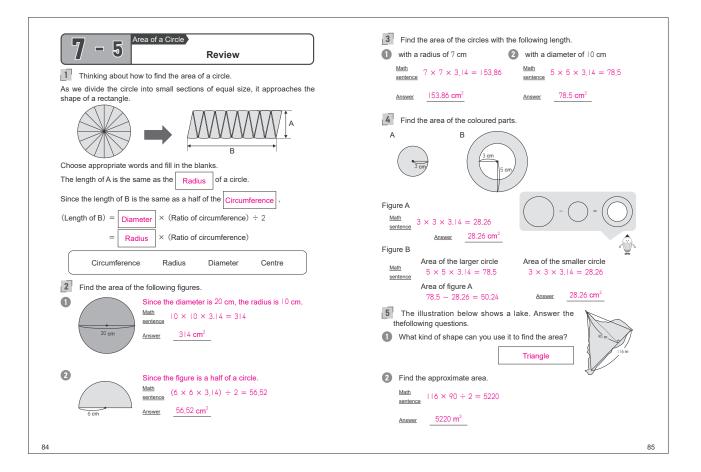
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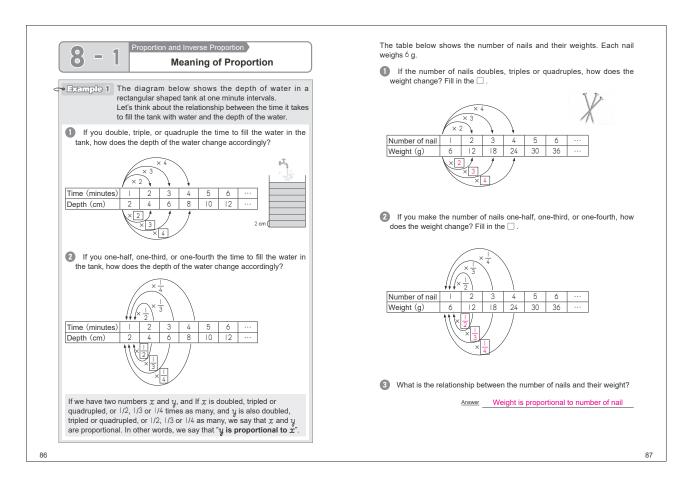
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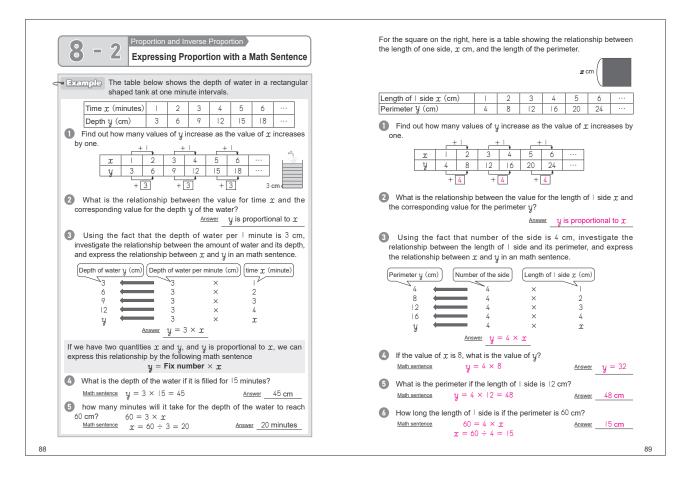


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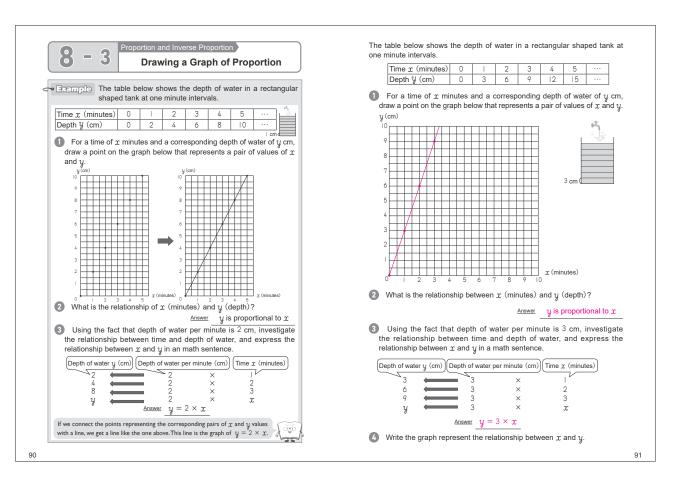
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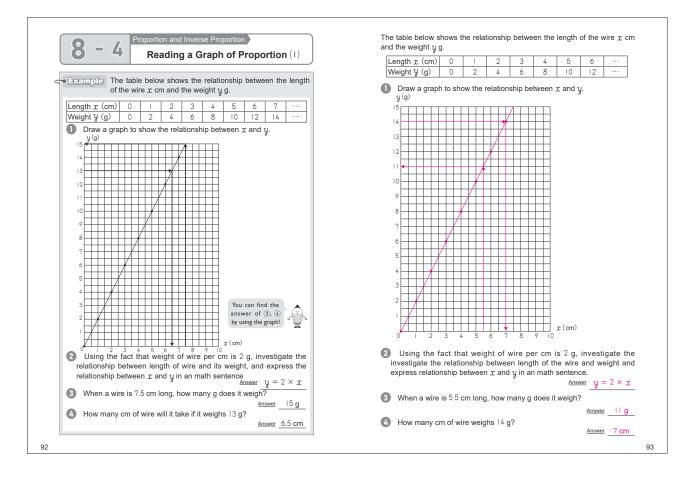
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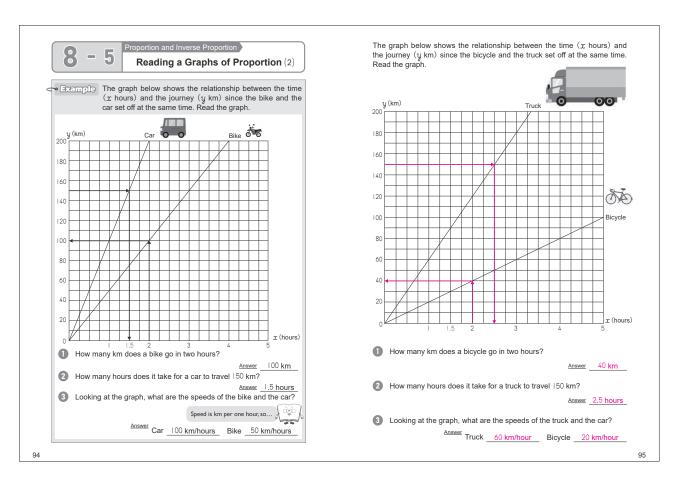
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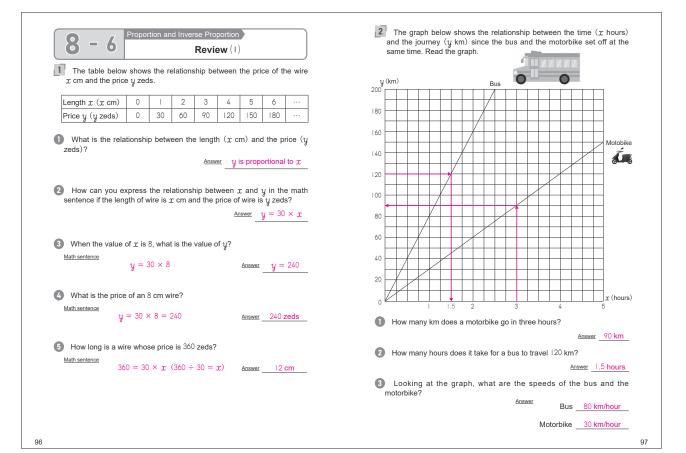
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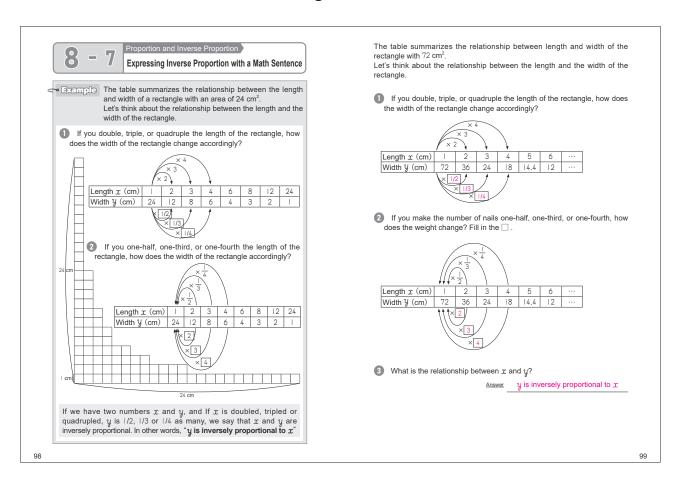
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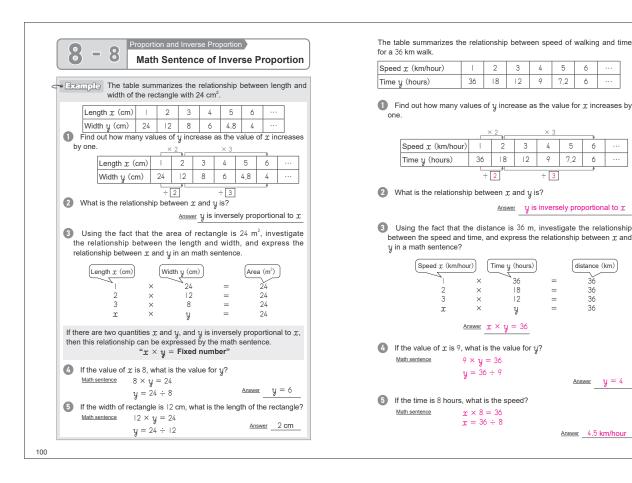


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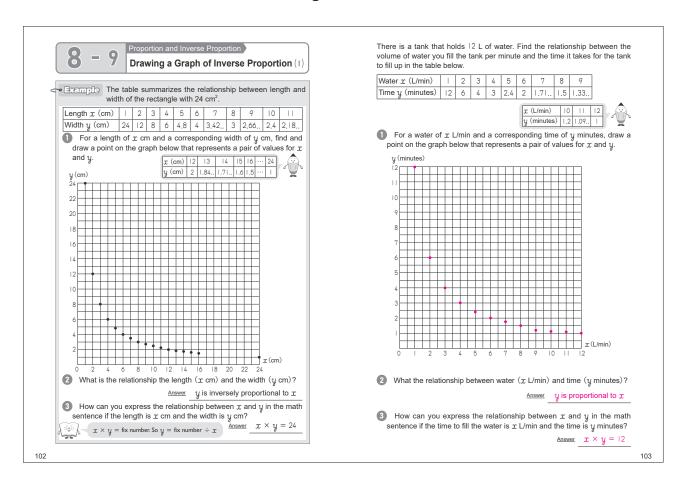


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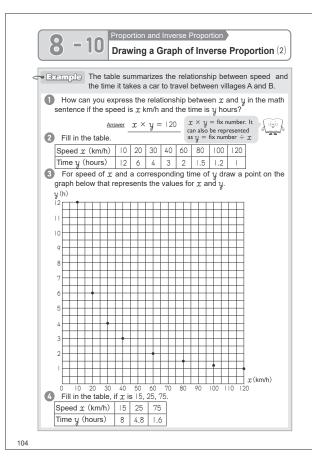
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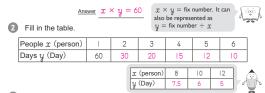


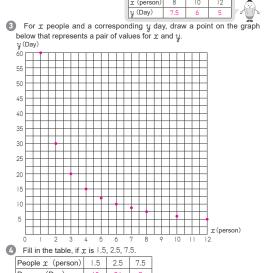
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There is a job that will take 60 days if one person does the same amount of work per day. It will take y days if x people do this job. Let's consider the relationship between x and y.

How can you express the relationship between x and y in the math sentence if the number of people is x and the number of days?





People x (person) 1.5 2.5 7.5 Days y (Day)

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- The table below shows the relationship between the base and the height of a parallelogram with an area of 30 cm².
- Fill in the table.

Base x (cm)	1	2	3	4	5	6	
Height y (cm)	30	15	10	7.5	6	5	

What is the relationship between the value for base and the

Base x (cm)	 	2	3	4
Height y (cm)	30	15	10	7.5

3 What is the relationship between the base of the parallelogram (x cm)and the height of the parallelogram (γ cm)?

Answer y is inversely proportional to x

 ${\color{blue} \bullet}$ How can you express the relationship between x and y in the math sentence if the base of the parallelogram is x cm and the height of the parallelogram is y cm?

Answer $x \times y = 30$

5 If the value of x is 10, what is the value of y?

 $y = 30 \div 10$ Answer y = 3

If the height of the parallelogram is 8 cm, what is the base of the parallelogram?

Answer 3.75 cm

- The table below shows the relationship between the amount of water x L per minute and the time y minutes it takes to fill a water bottle with 18 L of water.
- $\textbf{0} \quad \text{How can you express the relationship between } x \text{ and } y \text{ in the math} \\ \text{sentence if the amount of water } x \text{ L per minutes and the time is } y \text{ minutes}?$

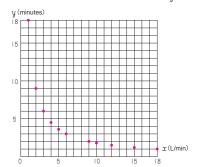
Answer $x \times y = 18$

2 Fill in the table.

Water x (L/min)	- 1	2	3	4	5	6	9
Time y (minutes)	18	9	6	4.5	3.6	3	2

y (minutes) 1.8

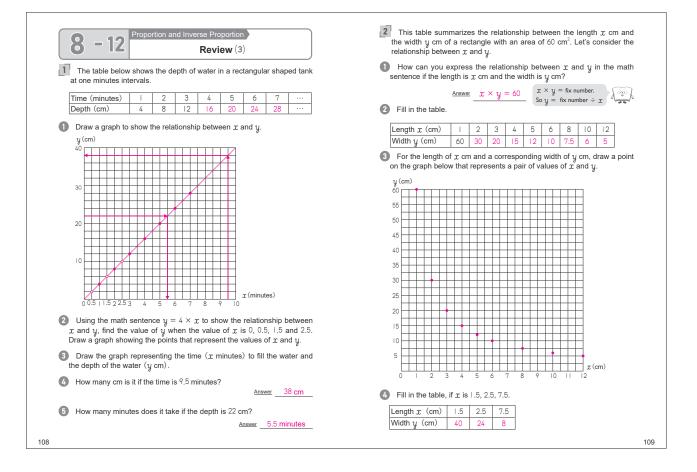
 $\textbf{3} \quad \text{For } x \text{ L/min and a corresponding } y \text{ minutes, draw a point on the graph below that represents a pair of values of } x \text{ and } y.$



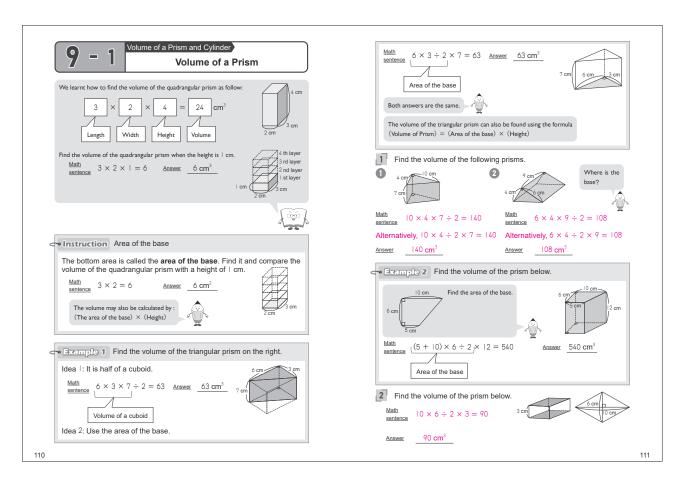
Fill in the table, if x is 1.5, 2.5, 7.5.

Water x (L/min)	1.5	2.5	4.5	7.5
Time u (minutes)	12	72	4	24

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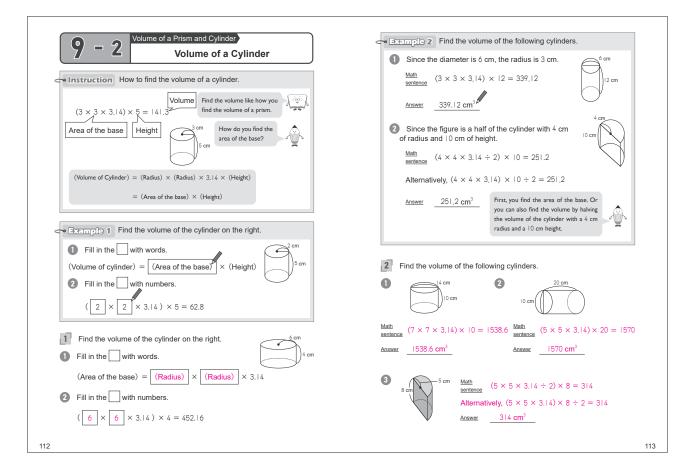
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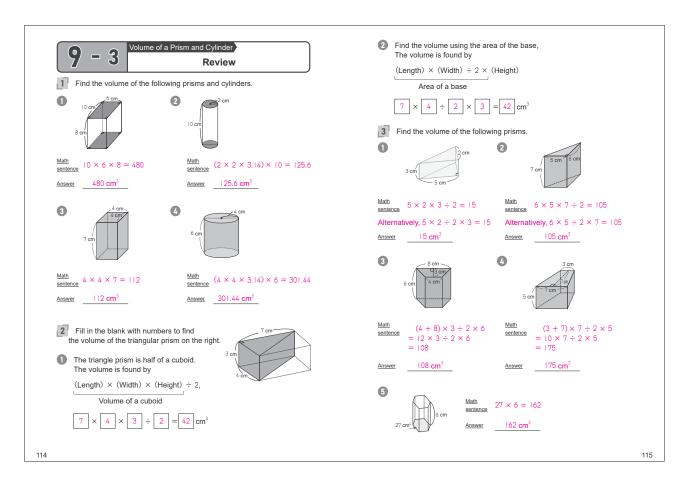
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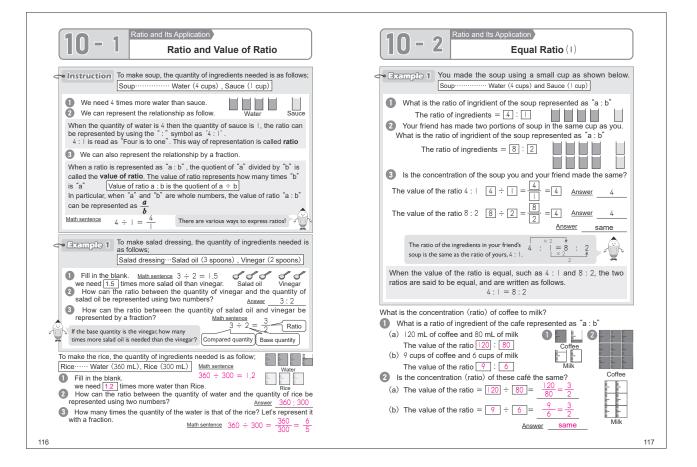
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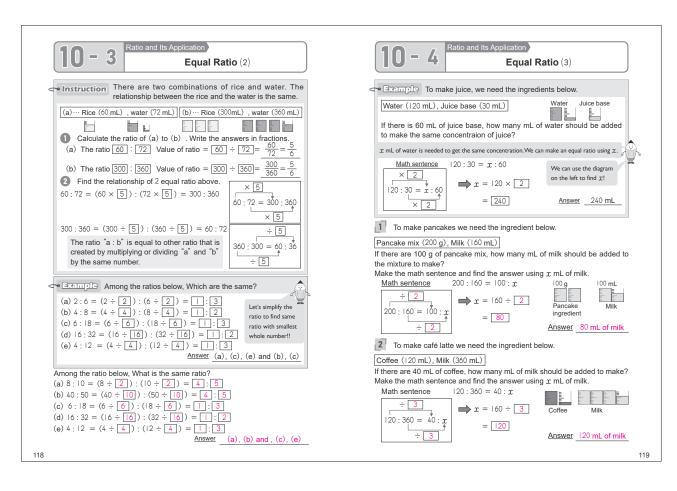
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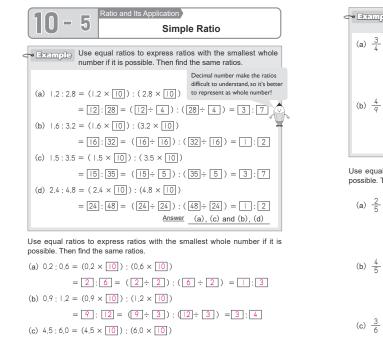
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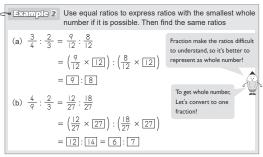


 $= 45 : 60 = (45 \div 15) : (60 \div 15) = 3 : 4$

 $= [3]: [39] = ([3 \div [3]): ([39] \div [3]) = [1]: [3]$

Answer (a), (d) and (b), (c)

(d) $1.3:3.9 = (1.3 \times 10):(3.9 \times 10)$



Use equal ratios to express ratios with the smallest whole number if it is possible. Then find the same ratios

(a)
$$\frac{2}{5} : \frac{3}{8} = \frac{16}{40} : \frac{15}{40}$$

$$= \left(\frac{16}{40} \times \frac{16}{40}\right) : \left(\frac{15}{40} \times \frac{16}{40}\right)$$

$$= \frac{16}{5} : \frac{15}{20}$$

$$= \left(\frac{16}{20} \times \frac{15}{20}\right) : \left(\frac{15}{20} \times \frac{15}{20}\right)$$

$$= \frac{16}{5} : \frac{15}{36}$$

(c)
$$\frac{3}{6}$$
: $\frac{6}{5} = \frac{15}{30}$: $\frac{36}{30}$

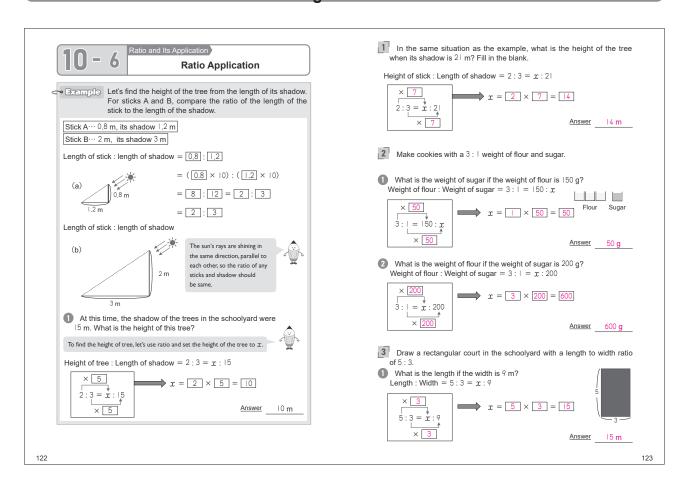
$$= \left(\frac{15}{30} \times 30\right) : \left(\frac{36}{30} \times 30\right)$$

$$= [5]: [36] = [5]: [2]$$

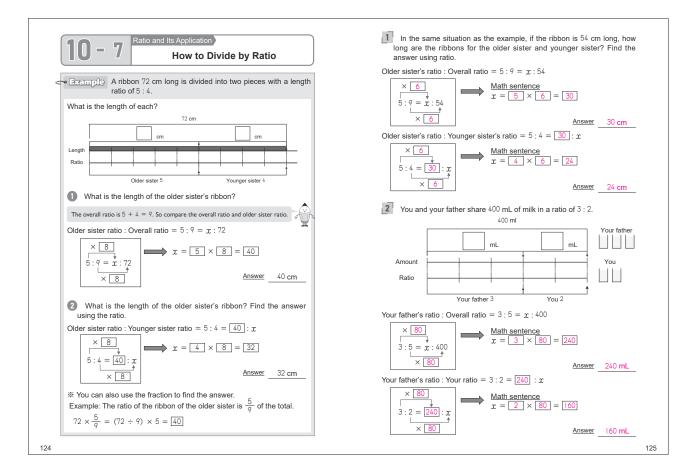
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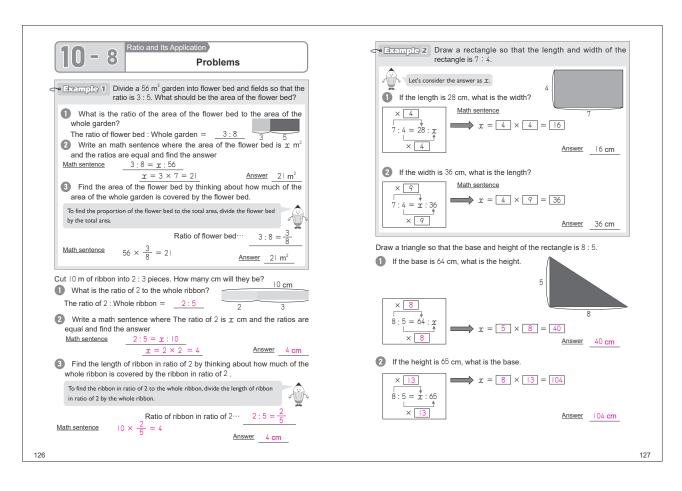
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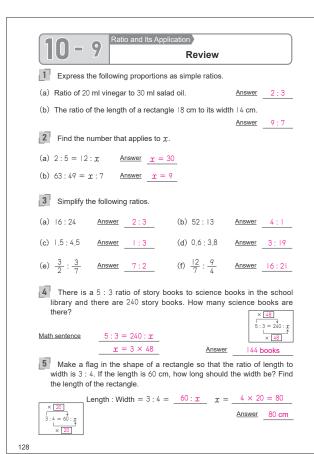
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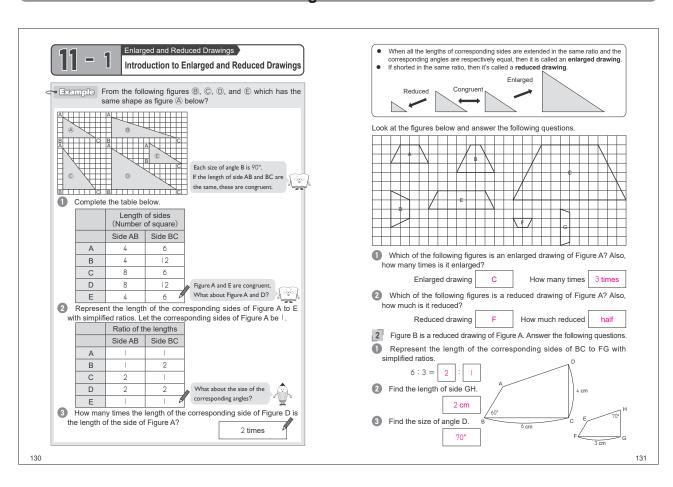
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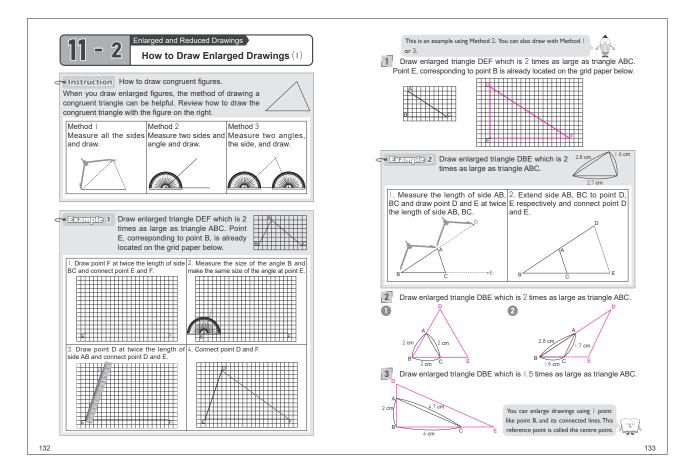


In one school, grade 5th and 6th students are in the football club. The ratio of 5th and 6th grade students in the football club is 9:7 and there are 32 members in the football club. How many 5th grade students are there in the football club? Find the ratio of the whole number 2 Find the number of 5th grade students. 9:16 = x:32× 2 Ratio of 5th grade : Ratio of whole number = 9:16 = x:32 $x = 9 \times 2 = 8$ Answer 18 students Make a lottery so that the ratio of the number of winning lots to the number of losing lots is 3 : 7. If the total number of lots is 120, how many winning lots should there be? Write two different math sentences. (a) Find the ratio of the total number of lots. (b) Math sentence. Ratio of winning lots: Ratio of total lots = 3:10 = x = 120 $x = 3 \times 12 = 36$ 3:10 = r:120Answer 36 winning lots (c) What is the ratio of winning lots to the total lots? Express it in fraction. Math sentence $3 \div 10 = \frac{3}{10}$ (d) What is the ratio of wining lots? Calculate with fraction above Math sentence $120 \times \frac{3}{10} = 36$ Answer 36 winning lots

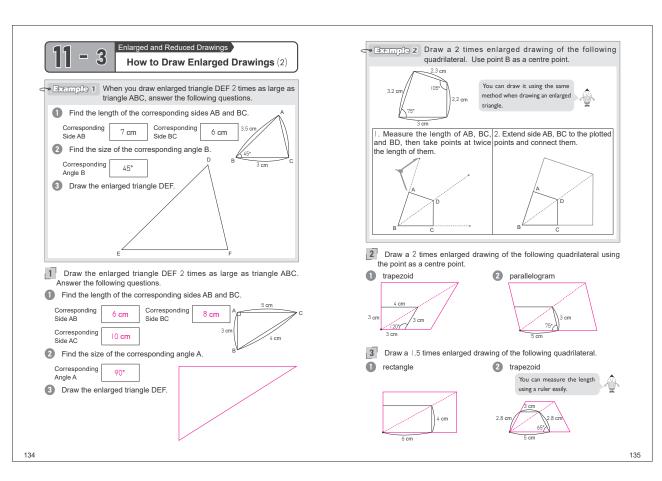
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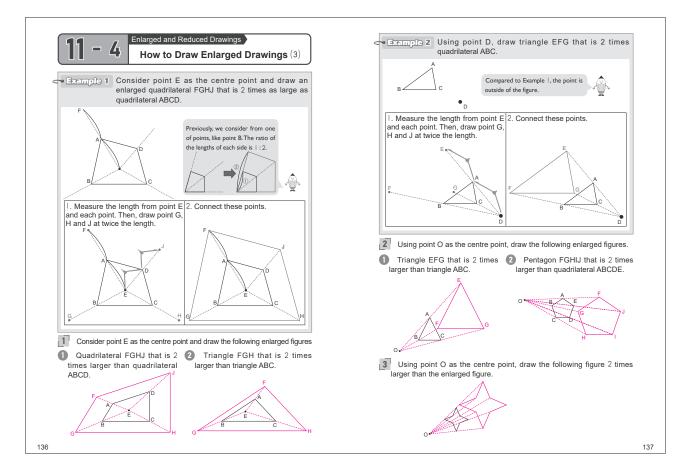


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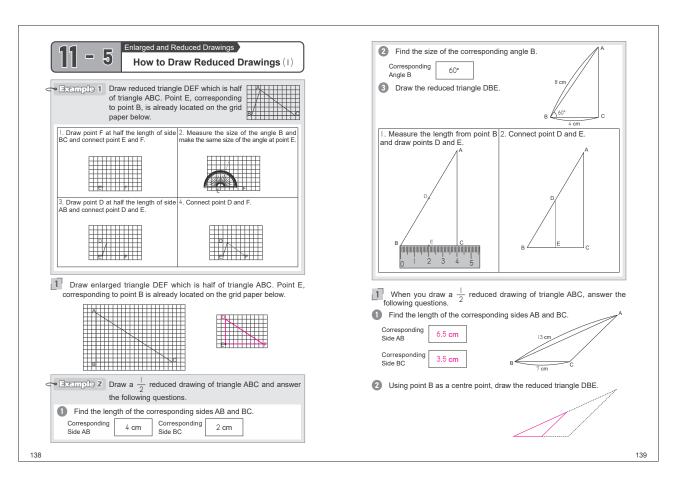


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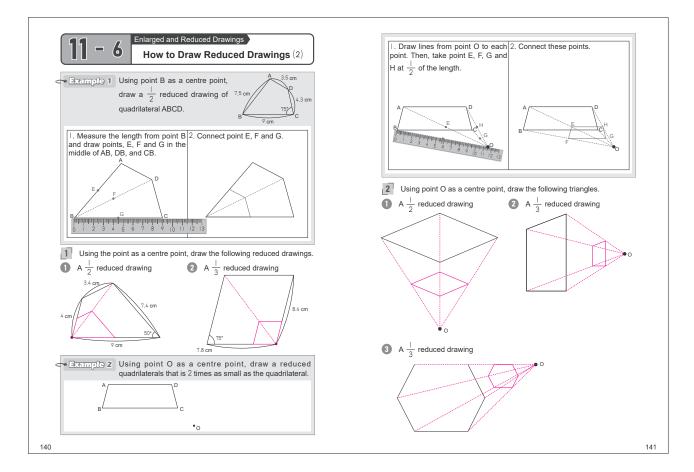


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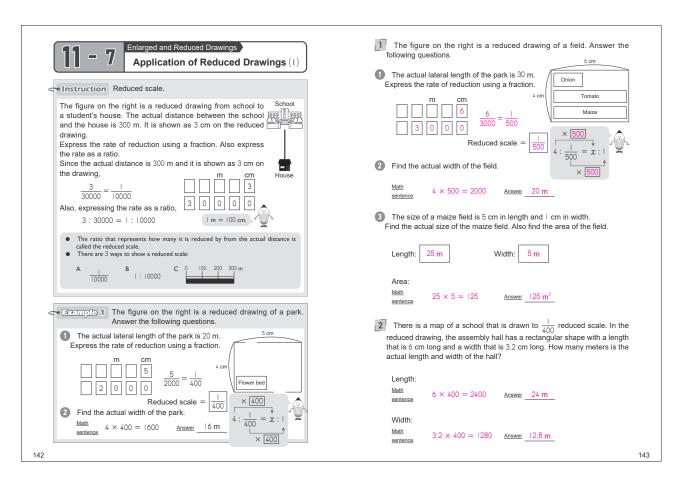


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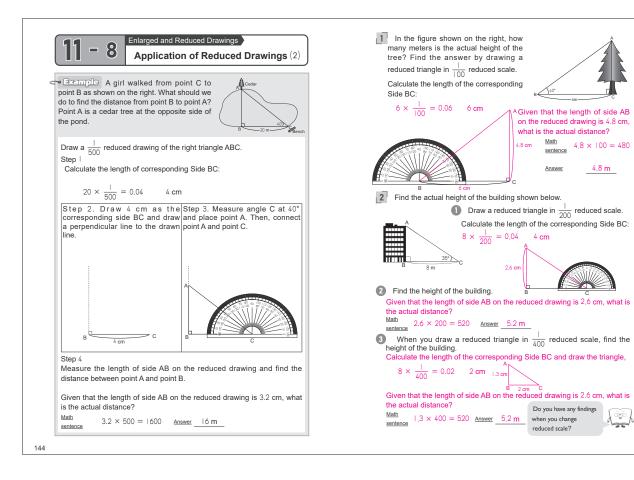


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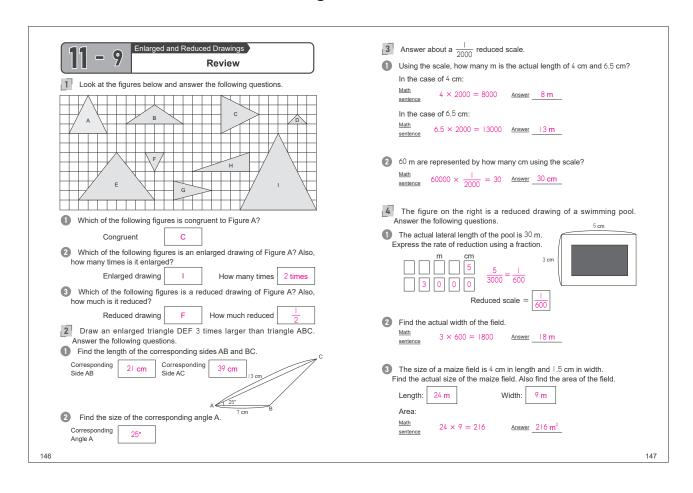


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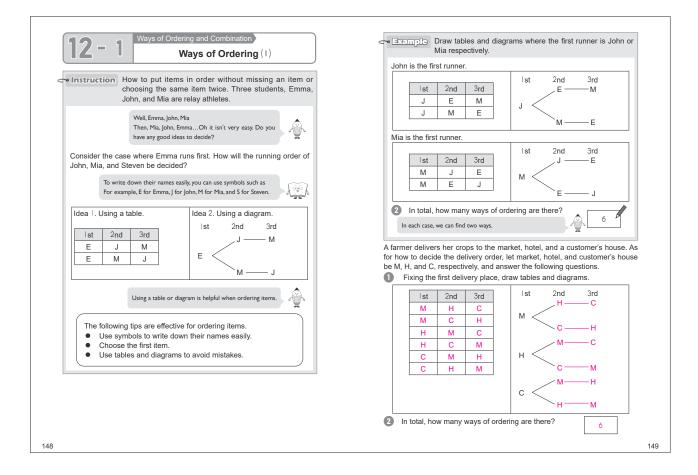
4.8 m



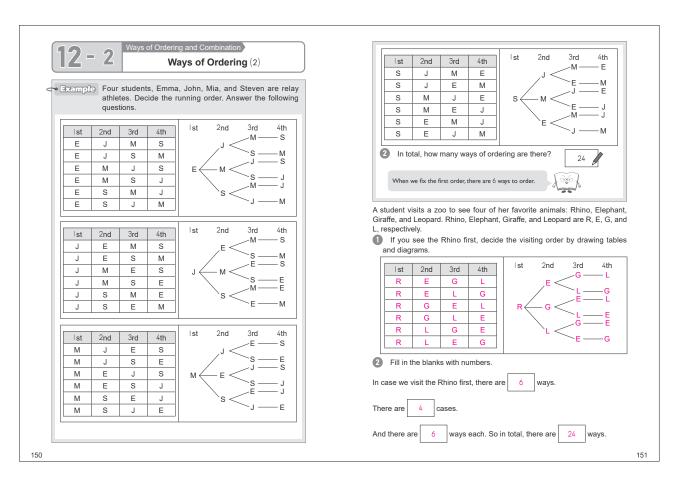
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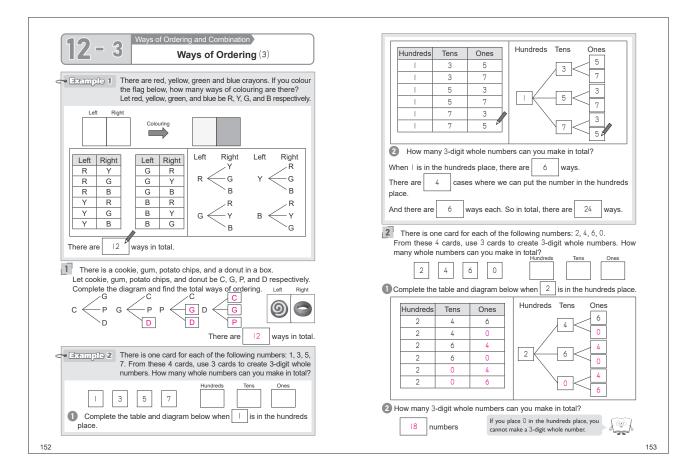
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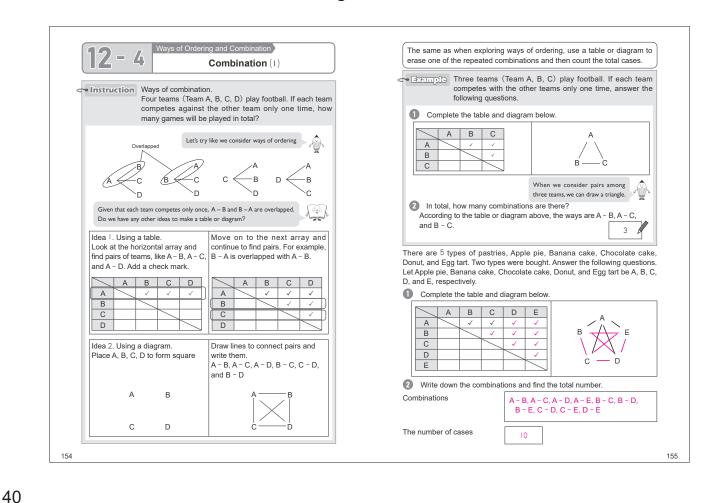
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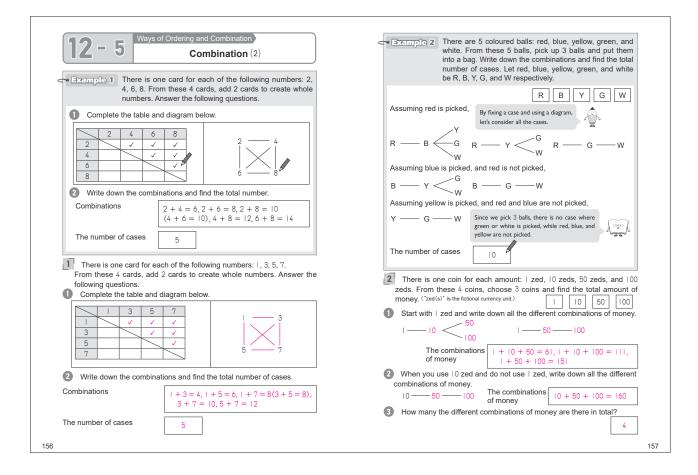


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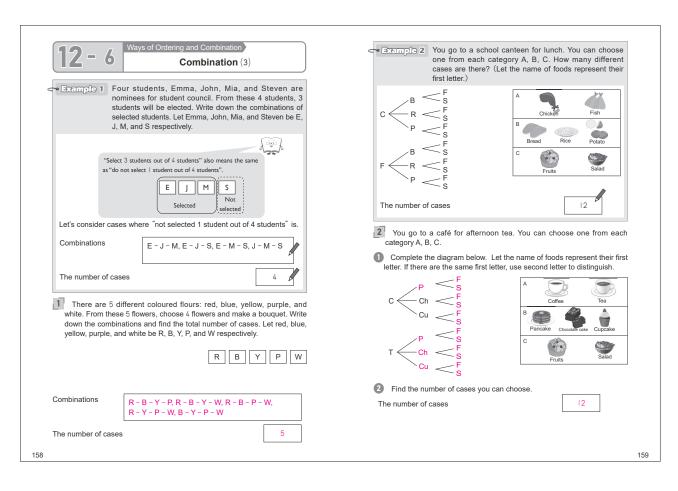


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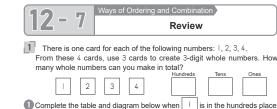
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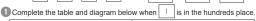


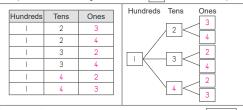
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- 2 How many 3-digit whole numbers can you make in total?
- There is one card for each of the following numbers: 1, 2, 3, From these 4 cards, use 3 cards to create 3-digit whole numbers. How many whole numbers can you make in total?

arry writine riurribers carr you mai	il total:			
	Thousands	Hundreds	Tens	Ones
1 2 3 0				

1 Complete the table and diagram below when 2 is in the thousands place.

Thousands	Hundreds	Tens	Ones
2		3	0
2	2 1 2 3		3
2			0
2	3	0	T I
2 0			3
2	0	3	1

2 How many 3-digit whole numbers can you make in total?

18 numbers

- There are 5 students, A, B, C, D, E, and F. 2 students were elected as school council members
- Complete the table below

	Α	В	С	D	Е	F
Α		✓	✓	✓	✓	✓
В			✓	✓	✓	✓
С				✓	✓	✓
D					✓	✓
Е						✓
F						

Write down the combinations and find the total number.

$$\begin{split} A-B,A-C,A-D,A-E,A-F,B-C,\\ B-D,B-E,B-F,C-D,C-E,C-F,\\ D-E,D-F,E-F \end{split}$$

The number of cases

- There is one coin for each: I zed, 50 zeds, I00 zeds, and 500 zeds. From these 4 coins, choose 3 coins and find the total amount of money ("zed(s)" is the fictional currency unit.) 50 100 500
- When you use | zed, write down all the different combinations of



The amount of moneys

| +50 + | 00 = | 51, | +50 + 500 = 551,| + | 00 + 500 = 60|

② When you use 50 zed and do not use | zed, write down all the different

50 - 100 - 500 The amount of moneys 50 + 100 + 500 = 650

3 How many the different combinations of money in total?

4

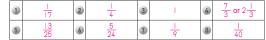
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Entire Grade-6 Review (1)

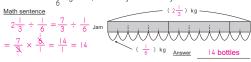
- 1 Calculate the following multiplication problems.
- 1) $\frac{2}{7} \times 3$ **5** $\frac{5}{9} \times 3\frac{3}{4}$ **6** $27 \times \frac{4}{9}$
- 2 $\frac{2}{3} \times \frac{4}{5}$ 3 $\frac{7}{12} \times \frac{3}{14}$ 4 $\frac{13}{16} \times \frac{32}{13}$
 - $0.3 \times \frac{5}{6}$
- 7 $\frac{4}{3}$ or $1 \frac{1}{3}$ $\frac{25}{12}$ or $2\frac{1}{12}$ 6 12 8
- 2 Calculate the following division problems.

- 1) $\frac{8}{9} \div 4$ 2) $\frac{5}{6} \div \frac{5}{8}$ 3) $\frac{2}{3} \div \frac{4}{9}$ 4) $\frac{11}{18} \div \frac{11}{20}$
- **5** $\frac{1}{18} \div |\frac{1}{12}$ **6** $2\frac{1}{4} \div |\frac{1}{6}$ **7** $4 \div \frac{8}{5}$ 8 $0.7 \div \frac{1}{4}$ 3 $\frac{3}{2}$ or $1\frac{1}{2}$ $\frac{10}{a}$ or $1\frac{1}{a}$ 6 7
- 3 Calculate the following problems.
- 1) $\frac{3}{4} \times \left(\frac{1}{12} \times \frac{16}{17}\right)$ 2) $\frac{5}{12} \times \frac{5}{6} \times \frac{18}{25}$ 3) $\frac{2}{5} \times \left(\frac{5}{3} + \frac{5}{6}\right)$

- **4** $\frac{3}{8} \times \left(\frac{8}{9} + \frac{16}{3}\right)$ **5** $\frac{12}{25} \times \left(\frac{5}{4} \frac{1}{6}\right)$ **6** $\frac{7}{10} \times \left(\frac{10}{21} \frac{5}{28}\right)$
- $\frac{2}{19} \times \frac{5}{6} + \frac{2}{19} \times \frac{2}{9}$
 - 8 $\frac{1}{22} \times \frac{3}{4} \frac{1}{22} \times \frac{1}{5}$



- 4 Which product is more than 8. Write the letter of the correct math
- (b) 8 × I
- (c) $8 \times \frac{18}{15}$ (d) $8 \times 1 \frac{1}{2}$
- - Answer (c), (d), (e)
- (f) $8 \div \frac{10}{9}$
- f 5 Read the following problems and write a math sentence using the letter x. 1 Length of the perimeter of a square. One side is $x ext{ cm long}$.
- Answer $x \times 4$ (cm)
- 3 Total weight when x g of candy is put in a 200 g box.
- Answer 6 | m of rope costs 30 zeds*. How much does $\frac{1}{6}$ m of this rope cost? ×(1/6)
- Length Math sentence $30 \times \frac{1}{6}$
- Answer 5 zeds 7 I have a 30 m long ribbon. I used $\frac{7}{15}$ of this ribbon. How many m of ribbon do I have left?
- () ×(7/15) (30) (m) Math sentence 7/15 of 30 m is; Times $30 \times \frac{7}{15} = 14 \,\mathrm{m}$ 30 - 14 = 16
- 8 There is $2\frac{1}{3}$ kg of strawberry jam. If you divide the jam into bottles that can hold $\frac{1}{6}$ kg each, how many bottles can you fill?



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Entire Grade-6 Review (2)

- 1 The figure on the right is a point symmetric figure
- Draw the point of symmetry on the figure.
- 2 Draw in the figure the corresponding point B to point A
- 2 Find the area of the following figures.



Since the diameter is 12 cm, the radius is 6 cm.

 $\frac{\text{Math}}{\text{sentence}} \quad 6 \times 6 \times 3.14 = 113.04$

Answer 113.04 cm²



Since the figure is a quarter of a circle.

 $\frac{\text{Math}}{\text{sentence}} \quad (2 \times 2 \times 3.14) \div 4 = 3.14$

Answer 3.14 cm²

- 3 The illustration below shows a forest. Answer the
- 1) What kind of shape can you use it to find the

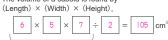


 $80 \times 40 \div 2 = 1600$ 1600 m²

2 Find the approximate area.

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- 4 Fill in the blank with numbers to find the volume of the triangular prism on the right.
- 1 The triangle prism is half of a cuboid e volume of a cuboid is found by

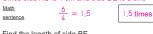


Volume of the cuboid

2 Find the volume using the area of the base, (Area of the base) × (Height)



- Triangle DBE is an enlarged drawing of triangle ABC. Answer the following questions.
- 1 How many times is it enlarged? Since side AC is 4 cm and side DE is 6 cm Math



2 Find the length of side BE. Math

 $1.5 \times 5 = 7.5$ sentence

3 Find the size of angle C.

7.5 cm

that is 10 cm long and a width that is 8 cm long. How many meters is the actual and width of the hall?

Length:

Math $10 \times 500 = 5000$ Answer 50 m

 $\frac{\text{Math}}{\text{sentence}} \quad 8 \times 500 = 4000$

Answer 40 m

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Entire Grade-6 Review (3)

1 The table below shows the time of walking and distance you go. If you walk at a speed of 40 m per minute, let y m be the distance you travel in x minutes. Answer the following questions.

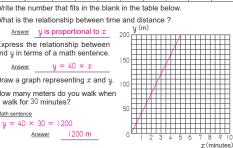
traver in a minutes. Answer the following questions.								
Time x (minutes)	0	- 1	2	3	4	5	6	
Distance y (m)	0	40	80	120	160	200	240	

- Write the number that fits in the blank in the table below.
- 2 What is the relationship between time and distance?
- 3 Express the relationship between x and y in terms of a math sentence.

 \bigcirc Draw a graph representing x and y.

5 How many meters do you walk when you walk for 30 minutes?

 $\frac{\text{Math sentence}}{y = 40 \times 30 = 1200}$ Answer 1200 m



The table below shows the time of driving a car and speed you go. Let x time be the time it takes you to travel 120 km at a speed of y per hour. Answer the following questions.

- 1) Write the number that fits in the blank in the table below.
- 2 If the value of x doubles or triples, how does the value of y change?

Answer y becomes 1/2 or 1/3 as many

3 What is the relationship between x and y?

Answer y is proportional to x

4 Express the relationship between x and y in an math sentence? Answer $x \times y = 120$

5 If the time is 8 hours, what is the speed? Math sentence $8 \times y = 120 \quad y = 120 \div 8$ Answer 15 km/hours 3 Express the following proportions as simple ratios.

(a) The ratio of the length of a rectangle 35 cm to its width 21 cm.

(b) Ratio of |50 mL rice to |80 mL water.

Answer 5:6

4 Find the number that applies to x.

(a) 8:5=x:25 Answer x=40

(b) x:20=5:4 Answer x=25

5 Simplify the following ratios.

(a) 36:28 <u>Answer</u> 9:7 (b) 420:350 <u>Answer</u> 6:5

(c) 5.6:2.1 <u>Answer</u> 8:3 (d) 0.6:3.8 Answer 3:19

(e) $\frac{1}{6}: \frac{3}{10}$ Answer $\frac{5:9}{}$ (f) $\frac{2}{7}: \frac{2}{9}$ Answer 9:7

6 My brother and sister have a coloured paper. The ratio of the number of sheets is 5:3 accordingly. My brother has 30 sheets. How many sheets of coloured paper does my sister have?

 $\underline{\text{Math sentence}} \quad 5:3=30:x \quad x=18$

7 We measured the length of the shade of a tree in the school and found it to be 9 m. If you put a stick 0.6 m long, the length of its shade is 1.5 m. What is the height of the tree?.

Math sentence 0.6:1.5=x:9

Answer 3.6 m

- 8 The 3,000 zeds given to your family by your father will be divided 3:2 , 3,355 2663 given to your ramily by your father will be divided 3 : 2 between your brother and sister. How many zeds will my brother and sister get?
- Find the total ratio.

2 How many zeds will my brother get?

Math sentence 3:5=x:3000 x = 1800Answer 1800 zeds

3 How many zeds will my sister get?

<u>Math sentence</u> 2:5=x:3000 x=1200

Answer 1200 zeds

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Data Utilization

Entire Grade-6 Review (4)

1 The following information is the records of classmates' weight.

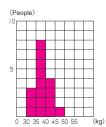
37, 43, 41, 30, 49, 38, 36, 42, 39, 37, 32, 43, 37, 30, 35, 39 (kg)

1) Find the mean of the weight.

<u>waun</u> <u>sentence</u> 608 ÷ 16 = 38

Complete frequency table and histogram.





3 Where does the student who is 10th of the lightest belong?

35-40

 $\mbox{\@model{4.6}}{\@model{4.6}}{\@model{4.6}}{\@model$

Since the total number of student is 16,

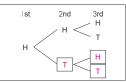
 $\frac{\text{Math}}{\text{sentence}} \quad 4 \div 16 \times 100 = 25$

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2 A boy tosses a coin 3 times. In how many ways does he get heads and tails?

Consider the case where it gets head first. Complete the table and diagram below. Let head and tail be H and T, respectively.

lst	2nd	3rd
Н	Н	Н
Н	Н	Т
Н	Т	Н
Н	Т	Т



How many ways are there in all?

Since there are 4 ways when it gets heads first,

$$2 \times 4 = 8$$

- 3 You are making four-digit passwords using numerals. For each of the following situations, figure out how many different passwords are possible.
- 1) Using each numeral 1, 2, 3, and 4 once

Since there are 6 ways when you fix "I" in the thousands place,

 $4 \times 6 = 24$

2) If you use the numerals 0-9, and if you can use each numerals as many times as you like.

Since there are 10 ways when you fix a number in the thousands place,

$$7 \times 8 \times 9 \times 9 = 4536$$

4 A girl is buying 2 flavors of ice cream from 5 choices: banana, chocolate, strawberry, vanilla, and walnut. How many combinations of flavor possible? Let banana, chocolate, strawberry, vanilla, and walnut be B. C. S. V. and W.

10

Combinations

B-C, B-S, B-V, B-W, C-S, C-V, C-W, S-V, S-W, V-W

The number of cases

169

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Power up !

Diagnostic Review 1

- 1 326 + 674 **5** 34+9×5

9 4.8 + 2.3

- **2** 613-36 **3** 53×46
- 4 204÷6
- **6** 96-8| ÷ 9 **7** 46-(30-19) **8** 17+(45-6×7) **10** 50.8+7.34 **11** 7.6-5.3 **12** 9.152-8.72

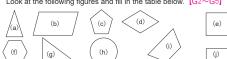
1	1000	2	577	3	2438	4	34
5	79	6	87	7	35	8	20
9	7.1	10	58.14	11	2.3	12	0.432

- 2 Write the correct numbers in the . [G4~G6]
- 1 0.8 + 7.6 = +0.8
- 2 $\frac{1}{2} \times \frac{3}{5} = \frac{3}{5} \times \square$
- **5** $9 \div 8 + 4.2 \div 8 = (9 + \bigcirc) \div 8$ **6** $10 \times (1.2 \frac{9}{10}) = 10 \times 1.2 10 \times \bigcirc$
- 3 (198+84)+16=198+(+16) 4 (3.2×0.25)×4=3.2×(×0.25)

- 5 6 7 3 Answer the following questions. [G4~G5]
- 1) What is 2 hundred millions, 8 one millions, and 5 ten thousands? 2 How many 1000s are there in 357000?
- 3 What is 7 0.1's and 8 0.01's? 4 How many 0.01 are there in 2.64?
- 5 What is $\frac{2}{3}$ times 3?

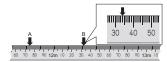
1	208050000	2	357	3	0.78	4	264	5	2

4 Look at the following figures and fill in the table below. [G2~G5]



	Name	Right triangle	Isosceles triangle	Pentagon	Hexagon	Circle
F	Answer	(g)	(a)	(c)	(f)	(h)
	Name	Trapezoid	Rectangle	Square	Parallelogram	Rhombus
F	Answer	(i)	(j)	(e)	(b)	(d)

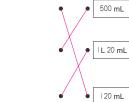
Sead the lengths of the ♣ on the tape measures below. [G3]





6 Match the same capacities with a line. [G2]



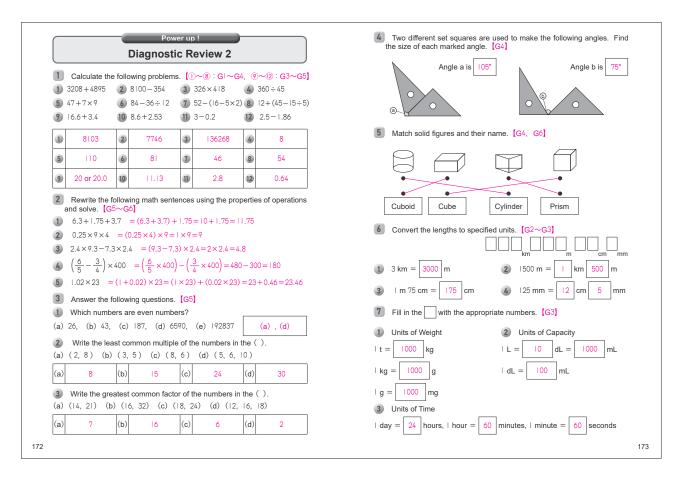




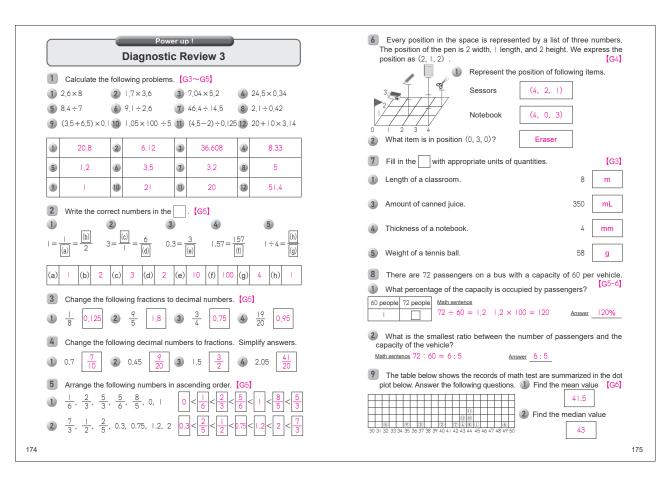
- The time is 9:15 now. Write the time points that shows the following times. [G2]
- 1) 30 minutes after It is 9:45
- 2 3 hours before It is 6:15



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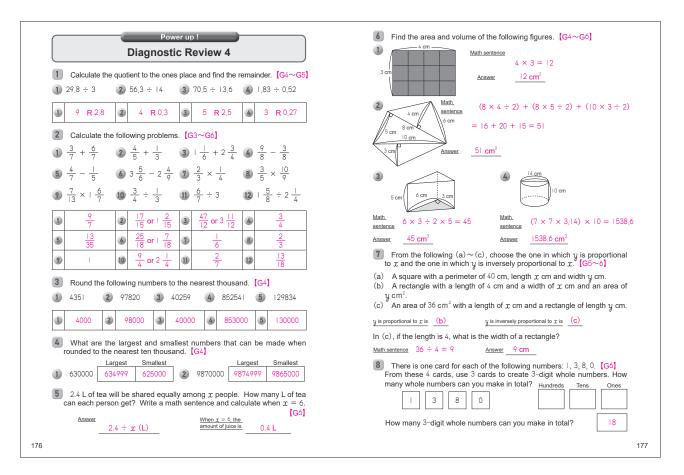


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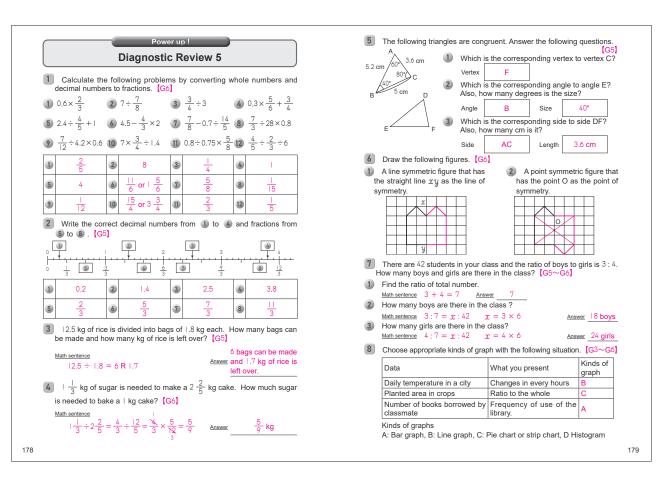


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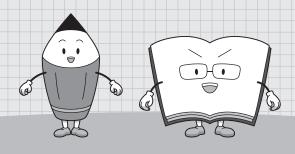
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