



在日フィリピン人児童のための算数教材 分数マスター・日本語クリアー  
Mga Kagamitan sa Pagtuturo sa Matematika Para sa mga Estudyanteng Pilipinong Naninirahan sa Japan  
BUNSUU MASTER NIHONGO CLEAR

27課 / Lesson 27 / Leksyon 27

ようごとぶん / Words and phrases / Mga Salita

ようご	Words	Mga salita
ななめ	diagonal / inclined / slanting	dayagonal
まる	circle	bilang / circle
かこむ	to encircle / to surround	mapaligiran / mapalibutan

ぶん	Phrases	Grupo ng mga salita
ななめに まるで かこんだ かずと かずを かけます。	Multiply one number by the other encircled diagonally.	Multiplikahin ang isang bilang sa isa pang bilang na napalibutan ng pabilog na dayagonal.



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## 27課/Lesson 27/Leksyon 27

### 【内容】 Contents Mga Nilalaman

①分数×分数、分数÷分数の文章題が教科書の解き方ではどうしても分からない場合の緊急避難的解決法
①The method that can be applied to solve the word problems with fraction×fraction and fraction÷fraction in case the method explained in textbook is hard to understand.
①Magagamit na paraan sa paglutas ng mga word problem sa fraction×fraction o fraction÷fraction kung sakaling mahirap maintindihan ang paglutas na itinuturo sa textbook.

### 【日本語の表現】 Math Expressions in Japanese Mga Math Expressions sa Japanese

①単位を表す「で」→ 「2/3 dlで3/5㎡塗れる。」
①「DE」, terminology to express the unit → 「2/3dl DE 3/5㎡ NURERU.」 (3/5㎡ can be painted with 2/3 dl.)
①「DE」na ginagamit upang maituro ang unit / pamantayan. → 「2/3dl DE 3/5㎡ NURERU.」(Mapipintahan ang 3/5㎡ sa gamit ng 2/3dl.)



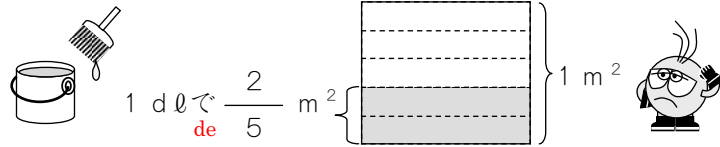
# 27 わりざんのぶんしょうだい ④

Warizan no bunshoodai

「分数×整数」の場面を「トゥッカーノ式」で解く。(24課の1と同じ問題)

1

1 dlでいたを  $\frac{2}{5}$  m<sup>2</sup> ぬれるペンキがあります。  
 Ichi deshirittoru de ita o  $\frac{2}{5}$  m<sup>2</sup> nureru penki ga arimasu.  
 このペンキ 2 dlでは、いたをなんm<sup>2</sup> ぬれますか。  
 Kono penki 2 dl de wa, ita o nan m<sup>2</sup> nuremasuka.



かんたんなほうほうをおしえてあげましょう。

Kantan na hoohoo o oshiete agemashoo

①まず、ひょうにかずをかきます。

Mazu hyoo ni kazu o kakimasu

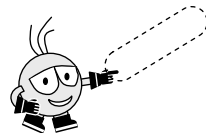
はじめ → つぎ  
Hajime → Tsugi

ペンキのりょう (dl) Penki no ryoo	1	2
ぬれるひろさ (m <sup>2</sup> ) Nureru hirosa	$\frac{2}{5}$	

②つぎに、ななめにまるでかこんだかずとかずをかけます。

Tsugini nanameni maru de kakonda kazu to kazu o kakemasu

はじめ → つぎ



ペンキのりょう (dl)	1	2
ぬれるひろさ (m <sup>2</sup> )	$\frac{2}{5}$	

$$\frac{2}{5} \times 2 = \frac{4}{5}$$

③あとは、 $\frac{4}{5}$  を

Ato wa  $\frac{4}{5}$  o

のこったかず「1」でわればおしまいです。

nokotta kazu de wareba oshimai desu

$$\frac{4}{5} \div 1 = \frac{4}{5 \times 1} = \frac{4}{5} \quad (\text{こたえ}) \quad \frac{4}{5} \text{ m}^2$$

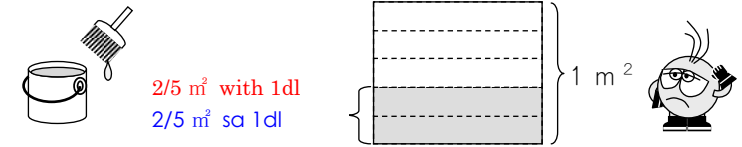


# 27 わりざんのぶんしょうだい ④

「分数×整数」の場面を「トゥッカーノ式」で解く。(24課の1と同じ問題)

1

There is paint, 1dl of which is enough to paint  $\frac{2}{5}$  m<sup>2</sup> of board.  
 Mayroong pintura na 1dl nito ay makakakulay ng  $\frac{2}{5}$  m<sup>2</sup> ng tabla.  
 How many m<sup>2</sup> of board can be painted with 2dl of this paint?  
 Ilang m<sup>2</sup> ng tabla ang makukulayan ng 2dl na pinturang ito?



The following is an easy way.

Ang sumusunod ay madaling paraan.

① First write the numbers in the table.

Una, isulat ang bilang sa table.

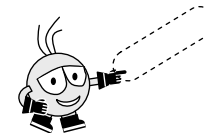
First → Next

amount of paint (dl) dami ng pintura	1	2
area that can be painted (m <sup>2</sup> ) kasakupang makukulayan	$\frac{2}{5}$	

Next multiply one number by the other encircled diagonally.

② Sunod ay multiplikahin ang isang bilang sa isa pang bilang na napalibutan ng pabilog na dayagonal.

First → Next



amount of paint (dl) dami ng pintura	1	2
area that can be painted (m <sup>2</sup> ) kasakupang makukulayan	$\frac{2}{5}$	

$$\frac{2}{5} \times 2 = \frac{4}{5}$$

③ Then

Pagkatapos

divide 4/5 by the left number "1" and that's all.

hatiin ang 4/5 sa natirang bilang "1" at tapos na.

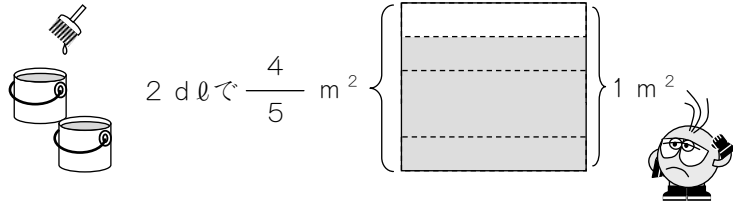
$$\frac{4}{5} \div 1 = \frac{4}{5 \times 1} = \frac{4}{5} \quad (\text{Answer}) \quad \frac{4}{5} \text{ m}^2$$

2

「分数÷整数」の場面を「トゥカーノ式」で解く。(24課の3と同じ問題)

2 dlでいたを  $\frac{4}{5}$  m<sup>2</sup> ぬれる ペンキがあります。

この ペンキ 1 dlでは、いたを なんm<sup>2</sup> ぬれますか。



これも ① と おなじ かんたん な ほうほう で けいさん できます。  
Kore mo ① to onaji kantan na hoohoo de keesan dekimasu

① まず、ひょうに かずを かきます。

	はじめ → つぎ	
ペンキの りょう (dl)	2	1
ぬれる ひろさ (m <sup>2</sup> )	$\frac{4}{5}$	

② つぎに、ななめに まるで かこんだ かずと かずを かけます。

$$\frac{4}{5} \times 1 = \frac{4}{5}$$

③ あとは、これを のこった かず「2」で われば おしまいです。

Ato wa kore o nokotta kazu de wareba oshimai desu

$$\frac{4}{5} \div 2 = \frac{4}{5 \times 2} = \frac{2}{5}$$

(こたえ)  $\frac{2}{5}$  m<sup>2</sup>

2

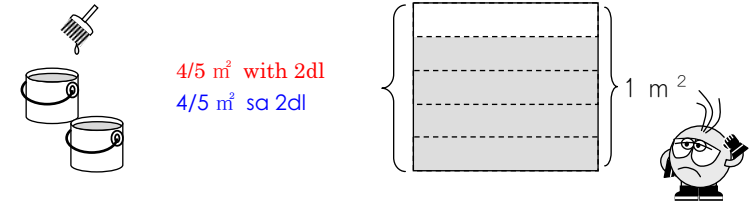
「分数÷整数」の場面を「トゥカーノ式」で解く。(24課の3と同じ問題)

There is paint, 2dl of which is enough to paint  $\frac{4}{5}$  m<sup>2</sup> of board.

Mayroong pintura na 2dl nito ay makakakulay ng  $\frac{4}{5}$  m<sup>2</sup> ng tabla.

How many m<sup>2</sup> of board can be painted with 1dl of this paint?

Ilang m<sup>2</sup> ng tabla ang makukulayan ng 1dl na pinturang ito?



This can also be calculated with the same easy way as 1.

Makakalkula din ito sa madaling paraan katulad ng sa 1.

① First write the numbers in the table.

Una, isulat ang bilang sa table.

	First → Next	
amount of paint (dl) dami ng pintura (dl)	2	1
area that can be painted (m <sup>2</sup> ) kasakupang makukulayan (m <sup>2</sup> )	$\frac{4}{5}$	

Next multiply one number by the other encircled diagonally.

② Sunod ay multiplikahin ang isang bilang sa isa pang bilang na napalibutan ng pabilog na dayagonal.

$$\frac{4}{5} \times 1 = \frac{4}{5}$$

③ Then divide this by the left number "2" and that's all.

Pagkatapos hatiin ito sa natirang bilang "2" at tapos na.

$$\frac{4}{5} \div 2 = \frac{4}{5 \times 2} = \frac{2}{5}$$

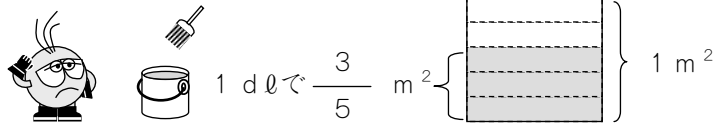
(Answer)  $\frac{2}{5}$  m<sup>2</sup>

3

「分数×分数」の場面を「トゥカーノ式」で解く。(25課の1と同じ問題)

1 dlでいたを  $\frac{3}{5}$  m<sup>2</sup> ぬれる ペンキがあります。

この ペンキ  $\frac{1}{2}$  dlでは、いたを なんm<sup>2</sup> ぬれますか。



これも 1とおなじ かんたんな ほうほうで けいさんできます。

①まず、ひょうに かずを かきます。

	はじめ → つぎ	
ペンキの りょう (dl)	1	$\frac{1}{2}$
ぬれる ひろさ (m <sup>2</sup> )	$\frac{3}{5}$	

②つぎに、ななめに まるで かこんだ かずと かずを かけます。

$$\frac{3}{5} \times \frac{1}{2} = \frac{\square}{\square}$$

③あとは、これを のこった かず「1」で われば おしまいです。

$$\frac{\square}{\square} \div 1 = \frac{\square}{\square} \times 1 = \frac{\square}{\square}$$

(こたえ)  $\frac{\square}{\square}$  m<sup>2</sup>

3

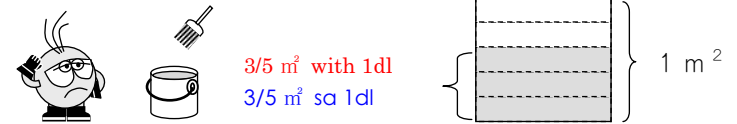
「分数×分数」の場面を「トゥカーノ式」で解く。(25課の1と同じ問題)

There is paint, 1dl of which is enough to paint  $\frac{3}{5}$  m<sup>2</sup> of board.

Mayroong pintura na 1dl nito ay makakalulay ng  $\frac{3}{5}$  m<sup>2</sup> ng tabla.

How many m<sup>2</sup> of board can be painted with 1/2dl of this paint?

Ilang m<sup>2</sup> ng tabla ang makukulayan ng 1/2dl na pinturang ito?



This can also be calculated with the same easy way as 1.

Makakalkula din ito sa madaling paraan katulad ng sa 1.

① First write the numbers in the table.

Una, isulat ang bilang sa table.

	First → Next	
amount of paint (dl) dami ng pintura (dl)	1	$\frac{1}{2}$
area that can be painted (m <sup>2</sup> ) kasakupang makukulayan (m <sup>2</sup> )	$\frac{3}{5}$	

Next multiply one number by the other encircled diagonally.

② Sunod ay multiplikahin ang isang bilang sa isa pang bilang na napalibutan ng pabilog na dayagonal.

$$\frac{3}{5} \times \frac{1}{2} = \frac{\square}{\square}$$

③ Then divide this by the left number "1" and that's all.

Pagkatapos hatiin ito sa natirang bilang "1" at tapos na.

$$\frac{\square}{\square} \div 1 = \frac{\square}{\square} \times 1 = \frac{\square}{\square}$$

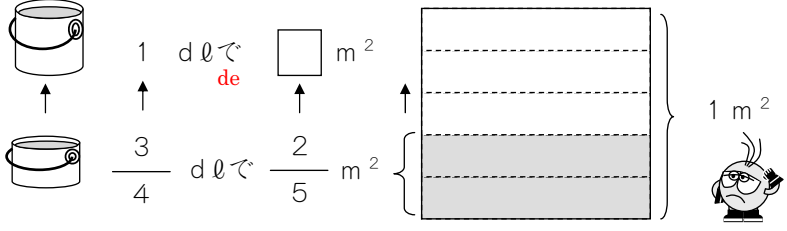
(Answer)  $\frac{\square}{\square}$  m<sup>2</sup>

4

「分数÷分数」の場面を「トゥカーノ式」で解く。(26課の1と同じ問題)

$\frac{3}{4}$  dlでいたを  $\frac{2}{5}$  m<sup>2</sup> ぬれるペンキがあります。  
 deshiritto de ita o hehooomeetoru nureru penki ga arimasu

このペンキを1 dlつかいました。なんm<sup>2</sup> ぬれましたか。  
 Kono penki o tsukaimashita nan nuremashitaka



①まず、ひょうにかずをかきます。

はじめ → つぎ

ペンキのりょう (dl)	$\frac{3}{4}$	1
ぬれるひろさ (m <sup>2</sup> )	$\frac{2}{5}$	

②つぎに、ななめにまるでかこんだかずとかずをかけます。

$$\frac{2}{5} \times 1 = \frac{\square}{\square}$$

③あとは、これをのこったかず「 $\frac{3}{4}$ 」でわります。  
 Ato wa kore o nokotta kazu de warimasu

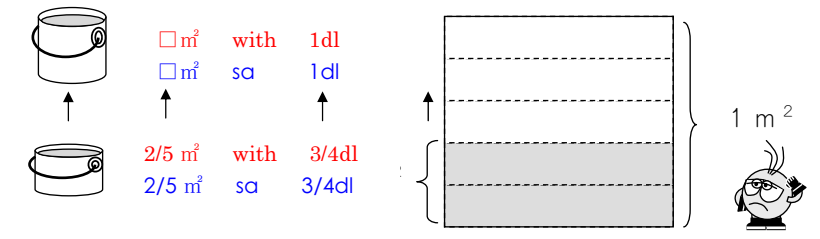
$$\frac{\square}{\square} \div \frac{3}{4} = \frac{\square}{\square} \times \frac{4}{3} = \frac{\square}{\square}$$

(こたえ)  $\frac{\square}{\square}$  m<sup>2</sup>

4

「分数÷分数」の場面を「トゥカーノ式」で解く。(26課の1と同じ問題)

There is paint, 3/4dl of which is enough to paint 2/5 m<sup>2</sup> of board.  
 Mayroong pintura na 3/4dl nito ay makakakulay ng 2/5 m<sup>2</sup> ng tabla.  
 1dl of this paint was used. How many m<sup>2</sup> was painted?  
 Ginamit ang 1dl ng pinturang ito. Ilang m<sup>2</sup> ang nakulayan nito?



① First write the numbers in the table.  
 Una, isulat ang bilang sa table.

First → Next

amount of paint (dl) dami ng pintura	$\frac{3}{4}$	1
area that can be painted (m <sup>2</sup> ) kasakupang makukulayan	$\frac{2}{5}$	

Next multiply one number by the other encircled diagonally.

② Sunod ay multiplikahin ang isang bilang sa isa pang bilang na napalibutan ng pabilog na dayagonal.

$$\frac{2}{5} \times 1 = \frac{\square}{\square}$$

③ Then divide this by the left number "3/4".  
 Pagkatapos hatiin ito sa natirang bilang "3/4".

$$\frac{\square}{\square} \div \frac{3}{4} = \frac{\square}{\square} \times \frac{4}{3} = \frac{\square}{\square}$$

(Answer)  $\frac{\square}{\square}$  m<sup>2</sup>

5

「針金の長さとおもさ」の問題に置き換えて「トゥカーノ式」で解く。(26課の4と同じ問題)

$\frac{4}{5}$  m の おもさが  $\frac{5}{7}$  kg の はりがね があります。  
*no omosa ga no harigane ga arimasu*

この はりがね 1 m では、なん kg に なりますか。  
*Kono harigane dewa nan ni narimasuka*

$\frac{4}{5}$  m で  $\frac{5}{7}$  kg



1 m で  kg

これも ペンキの もんだい と おなじように かんがえられます。  
*Kore mo penki no mondai to onaji you ni kangaeraremasu*

① まず、ひょうに かずを かきます。  
*Mazu hyoo ni kazu o kakimasu*

はじめ → つぎ

はりがねの ながさ (m) <i>Harigane no nagasa</i>	$\frac{4}{5}$	1
はりがねの おもさ (kg) <i>Harigane no omosa</i>	$\frac{5}{7}$	

② つぎに、ななめに まるで かこんだ かずと かずを かけます。  
*Tsugini naname ni maru de kakonda kazu to kazu o kakemasu*

$$\frac{5}{7} \times 1 = \frac{\square}{\square}$$

③ あとは、これを のこった かず 「 $\frac{4}{5}$ 」 で わります。  
*Ato wa kore o nokotta kazu de warimasu*

$$\frac{\square}{\square} \div \frac{4}{5} = \frac{\square}{\square} \times \frac{5}{4} = \frac{\square}{\square}$$

(こたえ)  $\frac{\square}{\square} \text{ m}^2$

5

「針金の長さとおもさ」の問題に置き換えて「トゥカーノ式」で解く。(26課の4と同じ問題)

There is a wire whose weight per  $\frac{4}{5}$ m is  $\frac{5}{7}$ kg.  
 Mayroong kawad na ang kabigatan ng  $\frac{4}{5}$ m nito ay  $\frac{5}{7}$ kg.  
 How many kg is 1m of this wire?  
 Ilang kg ang 1m ng kawad na ito?

$\frac{5}{7}$ kg with  $\frac{4}{5}$ m



kg with 1m  
kg sa 1m

This can also be solved in the same way as the problems on paint.  
 Magpag-iisipan din ito sa parehong paraan ng suliranin sa pintura.

① First write the numbers in the table.  
 Una, isulat ang bilang sa table.

First → Next

length of the wire haba ng kawad (m)	$\frac{4}{5}$	1
weight of the wire kabigatan ng kawad (kg)	$\frac{5}{7}$	

Next multiply one number by the other encircled diagonally.

② Sunod ay multiplikahin ang isang bilang sa isa pang bilang na napalibutan ng pabilog na dayagonal.

$$\frac{5}{7} \times 1 = \frac{\square}{\square}$$

③ Then divide this by the left number "4/5".  
 Pagkatapos hatiin ito sa natirang bilang "4/5".

$$\frac{\square}{\square} \div \frac{4}{5} = \frac{\square}{\square} \times \frac{5}{4} = \frac{\square}{\square}$$

(Answer)  $\frac{\square}{\square} \text{ m}^2$