11課 / Lesson 11 / Leksyon 11

ようご と ぶん / Words and phrases / Mga Salita

ようご	Words	Mga salita
ちがう	different	iba
このまま	as it is	ganito lamang
ならべる	to line up	paglinyahin / paghanayin
つうぶんする	to reduce to a common denominator	mag-reduce sa magkaparehong denominator

ぶん	Phrases	Grupo ng mga salita
ぶんぼが ちがうので、このままでは けいさん できません。	They can't be calcucated as they are because they have different denominators.	Hindi maaaring kalkulahin sa ganito lamang ang mga ito dahil hindi magkapareho ang mga denominator ng mga ito.
ふたつの ぶんすうを ならべます。	Line up the two fractions.	Paghanayin ang dalawang fraction.

11課/Lesson 11/Leksyon 11

【内容】　Contents　Mga Nilalaman

①異分母分数の足し算場面
②異分母分数の足し算の計算方法
①The case where addition of fractions with different denominators is applied.
②Method of addition of fractions with different denominators.
①Pag-unawa sa addition ng fraction na may magkaibang denominator.
②Paraan ng addition ng fraction na may magkaibang denominator.

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

①「〜を同じにする。」 → 分母を同じにして計算しましょう。
② 分母・分子
③ 通分
①「〜O ONAJINI SURU.」(to make 〜 the same.) 　→ Reduce to a common denominator and then calculate.
②「BUNBO」(denominator), 「BUNSHI」(numerator)
③「TSUUBUN」(reduction to a common denominator)
①「〜O ONAJINI SURU.」(gawing pareho ang 〜.) 　→ Gawing pareho ang denominator at kalkulahin.
②「BUNBO」(denominator), 「BUNSHI」(numerator)
③「TSUUBUN」(mag-reduce sa magkaparehong denominator)

Bunsuu no tashizan

分母が異なる分数の足し算場面を知る。

1

$$\frac{1}{2}\text{m の テープと} \quad \frac{1}{3}\text{m の テープを あわせると、}$$
no teepu to   no teepu o awaseru to

なんmの ながさに なりますか。
nanmeetoru no nagasa ni narimasuka

0     $\frac{1}{2}$ 1 m

$\frac{1}{3}$
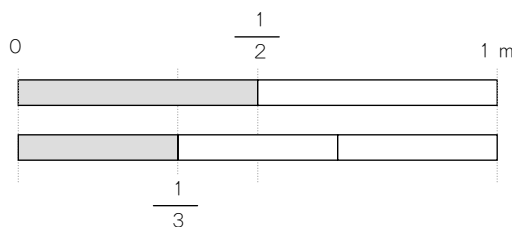
ぶんぼ（した）が
ちがうので、
このままでは
けいさん
できません。

Bunbo (shita) ga chigau node konomama dewa keesan dekimasen

$$\frac{1}{2} \quad + \quad \frac{1}{3} \quad = \quad ?\,\text{m}$$

0     $\frac{1}{2}$ 1 m

$\frac{2}{6}$ $\frac{5}{6}$

$\frac{3}{6}$

$\frac{1}{3}$
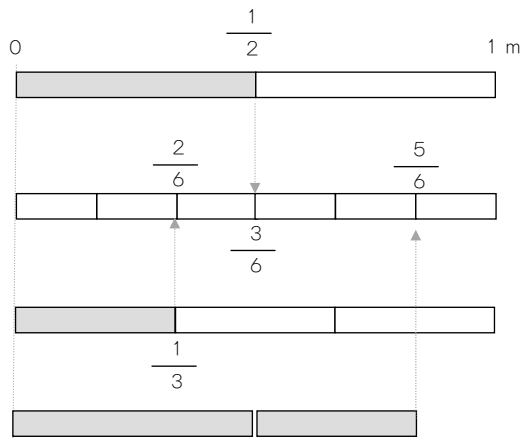
ぶんぼを 6にして
Bunbo o   ni shite
みましょう。
mimashoo

$$\frac{1}{2} \text{ は } \frac{3}{6} \text{ と おなじ、}$$
wa   to onaji

$$\frac{1}{3} \text{ は } \frac{2}{6} \text{ と おなじ}$$
wa   to onaji

おおきさです。
ookisa desu

$$\frac{1}{2}\text{m と}\frac{1}{3}\text{m を あわせると、}\frac{5}{6}\text{m と おなじ ながさに なります。}$$
to   o awaseru to   to onaji nagasa ni narimasu

1

How many meters of tape can be made when you combine 1/2m of tape and 1/3m of tape?

Kapag ang 1/2m na tape at 1/3m na tape ay pinagsama, ilang m na tape ang magagawa?

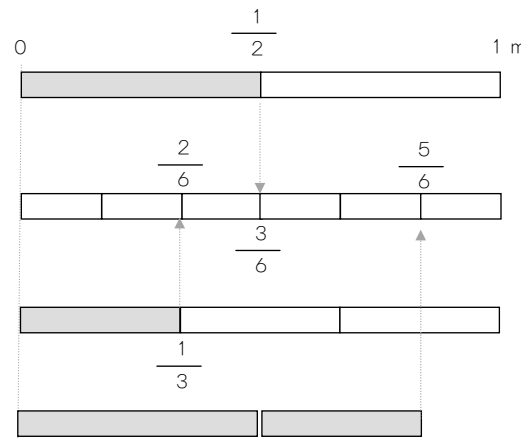0 $\frac{1}{2}$ 1 m

$\frac{1}{3}$
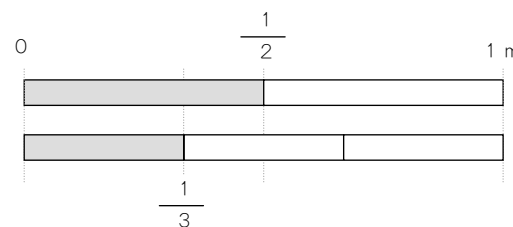
They cannot be calcucated as they are because they have different denominators (below).
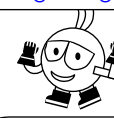
Hindi makakalkula sa ganito lamang ang mga ito dahil hindi magkakapareho ang mga denominator (baba) ng mga ito.

$$\frac{1}{2} \quad + \quad \frac{1}{3} \quad = \quad ?\,\text{m}$$

0     $\frac{1}{2}$ 1 m

$\frac{2}{6}$ $\frac{5}{6}$

$\frac{3}{6}$

$\frac{1}{3}$

Change the denominator into 6.
Gawing 6 ang denominator.

1/2 is as large as 3/6.

Ang 1/2 ay kasinlaki ng 3/6.

1/3 is as large as 2/6.

Ang 1/3 ay kasinlaki ng 2/6.

When you combine 1/2m and 1/3m, it will be the same length as 5/6m.

Kapag ang 1/2m at 1/3m ay pinagsama , magiging kasinghaba ng 5/6m.

ぶんぼ（した）が ちがうときは、
Bunbo　（shita）　ga　chigau　toki wa

ぶんぼを おなじにして けいさんします。
bunbo o　　onaji　　ni shite　　keesan shimasu

★ぶんぼを おなじに する やりかたを おぼえましょう。
　Bunbo o　onaji　ni　suru　yarikata　o　oboemashoo

①ふたつの ぶんすうを ならべます。
　Futatsu no　bunsuu　o　narabemasu

②ぶんぼを 2ばい、3ばい、4ばいに します。
　Bunbo o　nibai　sanbai　yonbai ni　shimasu

③ぶんしも 2ばい、3ばい、4ばいに します。
　Bunshi mo nibai　sanbai　yonbai ni　shimasu

$$\frac{1}{2} = \frac{2}{4} \quad \frac{3}{6} \quad \frac{4}{8}$$

おなじ ぶんぼの
Onaji　bunbo no
ぶんすうは、
bunsuu wa.
どれですか。
doredesuka

$$\frac{1}{3} = \frac{2}{6} \quad \frac{3}{9} \quad \frac{3}{12}$$

④おなじ ぶんぼの ぶんすうを みつけます。
　Onaji　bunbo　no　bunsuu　o　mitsukemasu

⑤ $\frac{3}{6} + \frac{2}{6}$ の けいさんを します。
　　　　　　　　no　keesan　o　shimasu

$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

これが
Kore ga
こたえです。
kotaedesu

When the denominators (below) are different, change them into common to calculate.
Kapag ang mga denominator (baba) ay magkakaiba, gawing magkakapareho ang mga ito at kalkulahin.

★ Learn how to change the denominators to common.
Matutuhan ang gawing magkakapareho ang mga denominator.

① Line up two fractions.
Paghanayin ang dalawang fraction.

② Make the denominator twice, 3 times, 4 times.
Gawing 2 beses, 3 beses, 4 na beses ang denominator.

③ Also make the numerator twice, 3 times 4 times.
Gawin ding 2 beses, 3 beses, 4 na beses ang numerator.

$$\frac{1}{2} = \frac{2}{4} \quad \frac{3}{6} \quad \frac{4}{8}$$

Which fractions have common denominators?
Alin ang mga fraction na may parehong denominator?

$$\frac{1}{3} = \frac{2}{6} \quad \frac{3}{9} \quad \frac{3}{12}$$

④ Find fractions which have common denominators.
Hanapin ang fraction na may mga parehong denominator.

⑤ Calculate 3/6+2/6.
Kalkulahin ang 3/6+2/6.

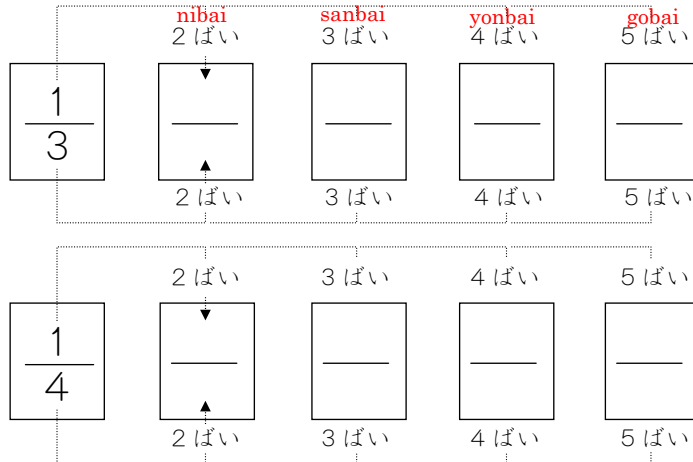$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

This is the answer.
Ito ang sagot.

3

$$\frac{1}{3} + \frac{1}{4}$$ の けいさんを しましょう。
no keesan o shimashoo

① ふたつの ぶんすうを ならべます。

	nibai 2 ばい	sanbai 3 ばい	yonbai 4 ばい	gobai 5 ばい
$\frac{1}{3}$	— 2 ばい	3 ばい	4 ばい	5 ばい

	2 ばい	3 ばい	4 ばい	5 ばい
$\frac{1}{4}$	— 2 ばい	3 ばい	4 ばい	5 ばい

② それぞれの ぶんぼを 2ばい、3ばいに していきます。
Sorezore no bunbo o nibai sanbai ni shite ikimasu

③ ぶんしも 2ばい、3ばいに していきます。
Bunshi mo nibai sanbai ni shiteikimasu

④ おなじ ぶんぼの ぶんすうを みつけます。
Onaji bunbo no bunsuu o mitsukemasu

⑤ その ぶんすうを つかって けいさんをします。
Sono bunsuu o tsukatte keesan o shimasu

$$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12}$$

$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$
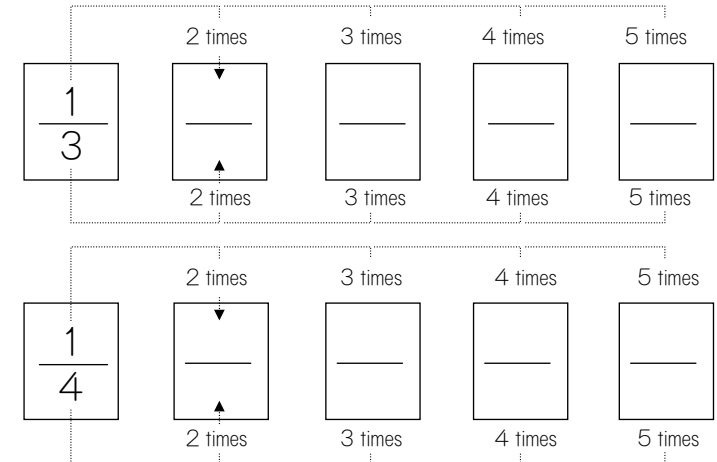
Kore ga
これが
こたえです。
kotae desu

3

Calculate 1/3+1/4.
Kalkulahin ang 1/3+1/4.

① Line up two fractions.
Paghanayin ang dalawang fraction.

	2 times	3 times	4 times	5 times
$\frac{1}{3}$	— 2 times	3 times	4 times	5 times

	2 times	3 times	4 times	5 times
$\frac{1}{4}$	— 2 times	3 times	4 times	5 times

② Make the denominator twice, 3 times, 4 times.
Gawing 2 beses, 3 beses, 4 na beses ang denominator.

③ Also make the numerator twice, 3 times 4 times.
Gawin ding 2 beses, 3 beses, 4 na beses ang numerator.

④ Find fractions which have common denominators.
Hanapin ang fraction na may mga parehong denominator.

⑤ Calculate by using those fractions.
Kalkulahin sa gamit ng mga fraction na iyon.

$$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12}$$

$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

This is the answer.
Ito ang sagot.

$$\frac{2}{3} + \frac{3}{4} \text{ の けいさんを しましょう。}$$

① おなじ ぶんぼの ぶんすうを みつけましょう。
Onaji　bunbo no　bunsuu o　mitsukemashoo

	2 ばい	3 ばい	4 ばい	5 ばい

$$\frac{2}{3}$$ ☐ ☐ ☐ ☐

2 ばい　3 ばい　4 ばい　5 ばい

2 ばい　3 ばい　4 ばい　5 ばい

$$\frac{3}{4}$$ ☐ ☐ ☐ ☐

2 ばい　3 ばい　4 ばい　5 ばい

② おなじ ぶんぼの ぶんすうで けいさんしましょう。
Onaji　bunbo no　bunsuu　de　keesan shimashoo

$$\frac{2}{3} + \frac{3}{4} = \frac{}{} + \frac{}{}$$

ぶんぼを おなじに することを「**つうぶんする**」と いいます。
Bunbo　o　onaji　ni　surukoto　o　"tsuubun suru"　to　iimasu

つうぶんして、 $\frac{1}{3} + \frac{3}{5}$ の けいさんを しましょう。
Tsuubun shite　　　　　　　　no　keesan　o　shimashoo

Calculate 2/3+3/4.
Kalkulahin ang 2/3+3/4.

① Find fractions which have common denominators.
Hanapin ang fraction na may mga parehong denominator.

	2 times	3 times	4 times	5 times

$$\frac{2}{3}$$ ☐ ☐ ☐ ☐

2 times　3 times　4 times　5 times

2 times　3 times　4 times　5 times

$$\frac{3}{4}$$ ☐ ☐ ☐ ☐

2 times　3 times　4 times　5 times

② Calculate by using those fractions.
Kalkulahin sa gamit ng mga fraction na iyon.

$$\frac{2}{3} + \frac{3}{4} = \frac{}{} + \frac{}{}$$

To change the denominators to common is called "to reduce to common denominators".
Ang pagpapapareho ng mga denominator ay tinatawag na "mag-reduce sa magkakaparehong denominator".

Calculate 1/3+3/5 by reducing to a common denominator.
Kalkulahin ang 1/3+3/5 sa pag-rereduce sa magkakaparehong denominator.