



10課/Lesson 10/Leksyon 10

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

ようご	Words	Mga salita
おはじき	marble; flat marbles; taw	holen
せん	line	linya
ゆび	finger	daliri
はじく	shoot	pitikin
とくでん	point; score	puntos
けっか	results	resulta
ひょう	table; graph	table
まとめる	show; collect; organize	ipapakita
しかた	the way of doing (something)	paraan
ばあい	in the case of...; in the case where	sa kaso ng

ぶん	Phrases	Grupo ng mga salita
おはじきを せんの ところに おいて、 ゆびで はじきます。	Place a marble behind the line and shoot/flick it with the finger.	Ilagay ang holen sa linya at pitikin ito upang pumasok sa target.
とくでんの けいさん	calculating points	ang pagkalkula ng mga puntos
けっかを ひょうに まとめました。	We show the results in a table/graph.	Ang resulta ay ipinapakita dito sa table.
けいさんの しかた	how to calculate the points	paraan ng pagkalkula
0この ばあいの とくでん	Points scored in the case of 0 (piece/marble)	Pagkalkula ng puntos sa kaso ng 0 holen.



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

10課/Lesson 10 /Leksyon 10

【内容】Contents / Mga Nilalaman

① 0を掛けると答えは0になる場面を理解し、 $\square \times 0 = 0$ の式で表すことを理解する。
② 0にどんな数を掛けても答えは0になる場面を理解し、 $0 \times \square = 0$ の式で表すことを理解する。
① To understand in a principle that any number multiplied by zero equals zero, and this is shown in the equation: $\square \times 0 = 0$
② To understand the principle that 0, even if multiplied by any number, remains zero. This is shown in the equation: $0 \times \square = 0$
① Ang pag-unawa sa konseptong kahit ano'ng bilang na i-multiply sa 0, ang sagot ay 0, ito ay ipinapakita sa equation na $\square \times 0 = 0$
② Ang pag-unawa sa konseptong, ang 0 kung i-multiply sa kahit ano mang bilang, ang sagot ay magiging 0 pa rin. Ito ay ipinapakita sa equation, $0 \times \square = 0$.

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

① 「おはじき」 「はじく」 「とくてん」
② N1 の N2 の N3 「0点のところの得点」 *Nは名詞の意味
① 「OHAJIKI」 [marbles/taw] 「HAJIKU」 [shoot/flip] 「TOKUTEN」 [score]
② 「N1NO N2NO N3」 「"0" TENNO TOKORONO TOKUTEN」 [Scores on the 0 target] *N is noun.
① 「OHAJIKI」 [holen] 「HAJIKU」 [pitikin] 「TOKUTEN」 [iskor]
② 「N1NO N2NO N3」 「"0" TENNO TOKORONO TOKUTEN」 [Nakuhang puntos sa 0 na target] *Ang N ay noun

10 〇のかけざん

ree no kakezan

1

とくてもんゲーム
tokuten geemu

2	
0	
3	
0	
1	
0	
<hr/>	
○	

ゲームのやりかた

geemu no yarikata

- ①おはじきをせんのところにおいて、
Ohajiki o sen no tokoro ni oite,
ゆびではじきます。
yubi de hajikimasu.
- ③1のしかくにはいいたら、1てん。
Ichi no shikaku ni haittara, itten.
2のしかくにはいいたら、2てん。
Ni no shikaku ni haittara, niten.
3のしかくにはいいたら、3てん。
San no shikaku ni haittara, santen.
- ④どこにもはいらなかつたら、0てん。
Dokonimo hairanakattara, reeten.

ゲームをしたら つぎのようになりました。
Geemu o shitara tsugi no yooni narimashita.

2	
0	
3	
0	
1	
0	
<hr/>	
○ ○ ○	

①3てんのところにおはじきは
San ten no tokoro ni ohajiki wa
なんこありますか。
nanko arimasuka.

②2てんのところにおはじきは
Niten no tokoro ni ohajiki wa
なんこありますか。
nanko arimasuka.

③1てんのところにおはじきは
Itten no tokoroni ohajiki wa
なんこありますか。
nanko arimasuka.

④0てんのところにおはじきは
Reeten no tokoro ni ohajiki wa
なんこありますか。
nanko arimasuka.

10

Multiplying with 0*
Multiplying with 0's

導入でよく取り上げられる「陣取りゲーム」の理解

1

Game of gaining Points
Paramihan ng Puntos

2	
0	
3	
0	
1	
0	
<hr/>	
○	

Game Rules:
Paraan ng Paglaro:

- Player places a marble behind the starting line, and then shoots the marble towards the target.
Ilagay ang holen sa linya at pitikin ito upang pumasok sa target.
- If the marble goes inside the target number 1, the player gets 1 point.
Pag pumasok sa target number 1, 1 puntos ang makukuha.
If the marble goes inside the target number 2, the player gets 2 points.
Pag pumasok sa target number 2, 2 puntos ang makukuha.
If the marble goes inside the target number 3, the player gets 3 points.
Pag pumasok sa target number 3, 3 puntos ang makukuha.
- If the marble lands on the 0-point areas, the player gets 0 point.
Pag huminto ang holen sa labas ng mga target, walang puntos o zero.

After the game was finished, this is how it goes.
Pagkatapos ng laro, ito ang resulta:

2	
0	
3	
0	
1	
0	
<hr/>	
○ ○ ○	

1. How many marbles went inside the 3-point target?
Ilang holen ang pumasok sa target na mayroong 3 puntos? _____

2. How many marbles went inside the 2-point target?
Ilang holen ang pumasok sa target na mayroong 2 puntos? _____

3. How many marbles went inside the 1-point target?
Ilang holen ang pumasok sa target na mayroong 1 puntos? _____

4. How many marbles landed around the 0-point area?
Ilang holen ang huminto sa 0 puntos na lugar? _____

2

とくてんの けいさん

けっかを ひょうにまとめました。
Kekka o hyoo ni matomemashita.

はいった ところ haitta tokoro	はいった かず (こ) haitta kazu (ko)	とくてん (てん) tokuten (ten)
3 てん santen	2 ni	
2 てん niten	0 ree	
1 てん itten	3 san	
0 てん reeten	4 yon	

とくてんを けいさんしましょう。

Tokuten o keisanshimashoo.

けいさんの しかた

keisan no shikata

はいったところのてん **haiitta tokoro no ten** × はいった かず **haiitta kazu** = とくてん **tokuten**

① 3てんの ところ santen no tokoro

$$\boxed{3} \times \boxed{} = \boxed{}$$

② 1てんのところ

$$\boxed{} \times \boxed{} = \boxed{}$$

2

Calculating the scores

Ang pagbilang ng mga puntos

The results are shown in the following table.

Ang resulta ay ipinapakita dito sa table.

Target Target	Number of marbles that went inside the target Bilang ng holen na pumasok sa target	Points received Nakolektang puntos
3 points 3 puntos	2	
2 points 2 puntos	0	
1 point 1 puntos	3	
0 point 0 puntos	4	

Let's add up the points.

Bilangin natin ang mga puntos.

How to calculate the points.

Paraan ng pagkalkula ng mga puntos.

① 3-point target target (3 puntos)

$$\boxed{3} \times \boxed{} = \boxed{}$$

② 1-point target
target (1 puntos)

$$\boxed{} \times \boxed{} = \boxed{}$$

3

0の掛け算の理解

0のかけざん(1)
ree no kakezan

2てんの ところの とくてんは なんてんになりますか。
Niten no tokoro no tokuten wa nanten ni narimasuka.

$$\boxed{\text{はいったところの てん}} \times \boxed{\text{はいった かず}} = \boxed{\text{とくてん}}$$

haitta tokoro no ten haitta kazu tokuten

$$\boxed{2} \times \boxed{\quad} = \boxed{\quad}$$

0このばいのとくてん
reeko no baai no tokuten

$$\boxed{\text{2てんの ところは}} \times \boxed{\text{0こ ですから}} = \boxed{\text{0てんです。}}$$

niten no tokoro wa reeko desukara reeten desu.

$$\boxed{2} \times \boxed{0} = \boxed{\quad}$$



$$\boxed{2} \times \boxed{0} = \boxed{0}$$

これは、
Korewa,
「0のあるかけざん」なのですね。
ree no aru kakezan nanodesune.

3

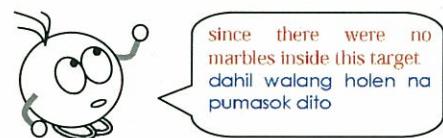
Multiplying with 0 (1)
Multiplying with 0's (1)

How many points were collected from the 2-point target?
Ilang puntos ang naipon galing sa 2 puntos na target?

$$\boxed{\text{Target (number of points)}} \times \boxed{\text{number of marbles}} = \boxed{\text{points received}}$$

Target (puntos) number of marbles (bilang ng holen) points received (nakuhang puntos)

$$\boxed{2} \times \boxed{\quad} = \boxed{\quad}$$



Calculating the points when there is no marble.
Pagkalkula ng puntos kung walang holen.

$$\boxed{\text{2-point target}} \times \boxed{\text{0 marbles}} = \boxed{\text{0 points}}$$

2 puntos na target 0 holen 0 puntos

$$\boxed{2} \times \boxed{0} = \boxed{\quad}$$



$$\boxed{2} \times \boxed{0} = \boxed{0}$$

This principle of multiplication is called multiplying with 0.
Ito ay tinatawag na 'multiplying with 0'.

4

0の掛け算の理解

0のかけざん (2)

ree no kakezan

0てんの ところの とくてんは なんてんに なりますか。
reeten no tokoro no tokuten wa nanten ni narimasuka.

$$\begin{array}{l} \text{はいったところの てん} \\ \text{haitta tokoro no ten} \end{array} \times \begin{array}{l} \text{はいった かず} \\ \text{haitta kazu} \end{array} = \begin{array}{l} \text{とくてん} \\ \text{tokuten} \end{array}$$

$$\boxed{0} \times \boxed{\quad} = \boxed{\quad}$$



0てんの ところの とくてん

reeten no tokoro no tokuten

0てんの ところの とくてんは なんてんに なりますか。
reeten no tokoro no tokuten wa nanten ni narimasuka.

$$\begin{array}{l} \text{0てんの ところは} \\ \text{reeten no tokoro wa} \end{array} \times \begin{array}{l} \text{4こですが} \\ \text{yonko desuga} \end{array} = \begin{array}{l} \text{0てんです。} \\ \text{reeten desu.} \end{array}$$

$$\boxed{0} \times \boxed{4} = \boxed{\quad}$$



4

0の掛け算の理解

Multiplying with 0 (2)

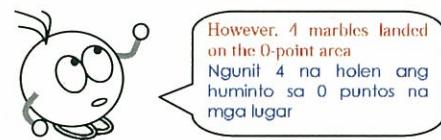
Multiplying with 0's (2)

How many points were collected from the 0-point areas?

Ilang puntos ang naipon galing sa 0 puntos na mga lugar?

Target (number of points) Target (puntos)	\times	number of marbles bilang ng holen	=	points received nakuhang puntos
--	----------	--------------------------------------	---	------------------------------------

$$\boxed{0} \times \boxed{\quad} = \boxed{\quad}$$



Points collected from the 0-point area

Puntos galing sa 0 puntos na lugar

How many points were collected from the 0-point area?

Ilang puntos ang naipon sa 0 puntos na lugar?

0-point areas 0 puntos na lugar	\times	4 marbles 4 na holen	=	0 points 0 puntos
------------------------------------	----------	-------------------------	---	----------------------

$$\boxed{0} \times \boxed{4} = \boxed{\quad}$$

