Lesson 19: How to extend division with remainder

Isoda, Masami. Prof., Faculty of Human Sciences Director of CRICED, The University of Tsukuba, Japan With collaborations of
Nguyen Chi Thanh and Teh Kim Hong



What is division with remainder?

## Q1. Which situation do you use to teach remainder?:

Partitive Division situation
12 candies distribute 4 children equally. How many candies each child will receive.
$12 \div 4=3$, Ans. 3 candies for each child: $\begin{aligned} & 4 \times 3=12 \text { in English } \\ & (3 \times 4=12 \text { in Japan })\end{aligned}$
Quotative Division situation
There is 12 candies and each child receive 4 candies equally. How many
children will receive it.
$12 \div 4=3$, Ans. 3 children: $3 \times 4=12$ in English
( $4 \times 3=12$ in Japan)

Q2. Please answer (-5) $\div 3$
Have you ever discuss the remainder? F



## References

 Masami lsoda, Aki Murata (2020). Study with your friends: Mathematics for Elementary School ( 12 vols.). Tokyo, Japan: Gakko Toshor Masamilsoda, Aki Murata, Aida Yap (2015). Study with your friends: Mathematics for Elementary School (12 vols). Tokyo, Japan:
Gakko Tosho. Masami Isoda, David Tall (2019). Mathematics for Junior High School (3 vols.). Tokyo, Japan: Gakko Tosho.
 Maitree Inprasitha Masami Isoda, Patsy Wang Iverson, Ban Har Yap (2015). Lesson Study: Challenges in Mathematics Education. New
Jersey, USA: World Scientific Masamil soda, Shigeo Katagiri (2012). Mathematical Thinking: How to develop it in the classroo Wor Practices at the Worda Scientific TEH Kim Hong, ISODA Masami, GAN Teck Hock (in printing). Mathematics Challenges for Classroom Practices at the Lower Primary
Level. Penang, Malaysia: SEAMEO-RECSAMM ISODA Masami. TEH Kim Hong GAN Teck Hock (in printing). Mathermatics Challenges for Classroom Practices at the Upper Primary
Level. Penang. Malaysia: SEANMEO-RECSAM GAN Teck Hock. ISODA Masami. TEEKKim Hong (2021). Mathematics Challenges for Classroom Practices at the Lower Secondary
Level. Penang. Malaysia: SEAME-RECSAM




