## SEAMEO School Network Program provided by CRICED-University of Tsukuba

Mathematics Education to Develop Students Agency: The Case of Fractions

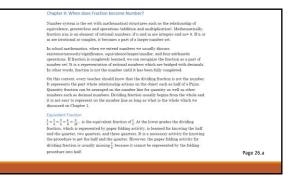
Teaching Mathematics to Develop Mathematical Thinking as Higher Order Thinking: How do you teach? Why? II

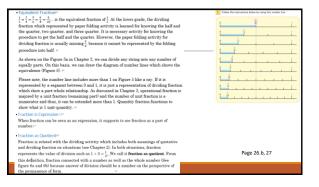
## Lesson 4: Fraction as Number

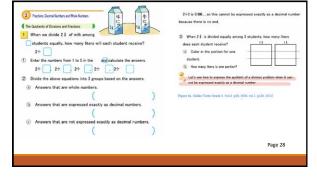
Lectured by: Masami Isoda, Prof/PhD, University of Tsukuba, Japan Withaupport of: Nguyen Chi Thanh, Assoc. Prof/Phd, Vietnam National University-University of Education, Hanol, Vietnam With participation of: Ms. Laura Lopez Zarate, Colombia

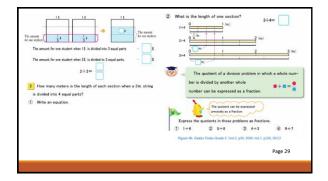
Ms. Mei Nakada, Japan Mr. Diego Solis, Costa Rica

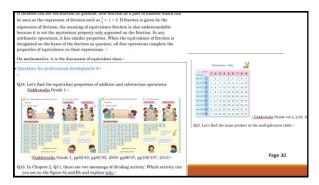












## References

Masami Isoda et al. (2010). Mathematics Education Theories for Lesson Study: Problem Solving Approach and the Curriculum through Extension and Integration, Journal of Japan Society of Mathematical Education, 92(11). 1-158...

 $Shin ~\underline{Hitotsumatsu} ~et ~al.~(2005). Study with your friends: Mathematics for Elementary School (12 vols). Tokyo: <u>Gakkotosyo</u>...$ 

Masami Isoda et al. (2010). Study with your friends: Mathematics for Elementary School (12 vols). Tokyo: Gakkotosyo.\*\*

Masami Isoda, Tenoch Esaú Cedillo Ávalos, et al. (2012). Matemáticas para la educación normal (11vols). Estado de <u>México</u>: Pearson Educación de México.«

Tenoch Cedillo, Masami Isoda, et al. (2013) Matemáticas para la educación <u>normal :</u> guía para el aprendizaje y enseñanza de la aritmética, Estado de México : Pearson Educación de México.<sup>,,e</sup>

Masami Isoda, Raimundo QHos. Edited. (2021). Teaching Multiplication with Lesson Study. Cham: Springer.

The textbook used in this course must be cited as shown below:

Masami Isoda (2013). Fraction for Teachers: Knowing What before Planning How to Teach. Tokyo: CRICED, University of Tsukuba.