MULTIPLICATION IS REPEATED ADDITION

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TARGET AUDIENCE: Intermediate Teacher (Grade: 4)

DURATION: 1 hour

MAXIMUM NUMBER OF PARTICIPANTS: 40

MOTIVATION FOR WORKSHOP

This workshop will enable teachers to use different strategies of teaching mathematics. The teachers will grow in their understanding and knowledge of certain common errors that leaners have in relations to mathematics content selected for the activity.

CONTENT OF WORKSHOP

In this presentation teachers will be introduced to various strategies for teaching multiplication as repeated addition. This will also help learners to solve mathematical problems. Learners will also know that multiplication is a shortcut for repeated addition.

1. Strategies for teaching multiplication as a repeated addition:
2. Counting
3. Pictures and visual representation
4. Games
5. Patterns

PROPOSED TIME ALLOCATION FOR THE WORKSHOP ACTIVITIES

Activity	Time
Introduction	10 Minutes
Presentation and Activities	40 Minutes
Discussion and Questions	10 Minutes

MATHEMATICS CONTENT

a) $3 + 3 = 3 \times 2 = 2 + 2 + 2 = 6$

b) **Addition:** 3 is added twice
2 is added three times

Multiplication: 3 is multiplied by 2
2 is multiplied by 3

Chewe, B. (2013). Multiplication is repeated addition. In Z. Davis & S. Jaffer (Eds.), *Proceedings of the 19th Annual Congress of the Association for Mathematics Education of South Africa*, Vol. 2. (pp. 13 – 14). Cape Town: AMESA.

c) In a table:

C1	1	2	3	4	5	6
C1 x 2	2	4	6	8	10	12

Is the same as:

C1	1	2	3	4	5	6
C1 + C1	1 + 1	2 + 2	3 + 3	4 + 4	5 + 5	6 + 6

REFERENCE

Department of Education: National curriculum statement (NCS) Intermediate Phase

Department of Basic Education: Curriculum, Assessment Policy (CAPS) Intermediate Phase.

Pretorious, J. Potgieter, R. & Ladewig, W. (2012). *Oxford successful mathematics grade 4 teacher's guide*. Cape Town: Oxford University Press.

Pretorious, J. Potgieter, R. & Ladewig, W. (2012). *Oxford successful mathematics grade 4 learner's book*. Cape Town: Oxford University Press.