

Exemplar 11: Division
(Open-ended Question)

Learning Dimension: Number

Learning Unit: Division (I)

Key Stage: 1

Learning Objective: To perform division with divisor of 1 digit and dividend of 2 digits

Prerequisite Knowledge: Basic multiplication

Teaching Resources: Counters

Problem

40 pupils are to be divided into groups in a competition. The number of pupils in each group should be equal.

- (a) How many groups of the same number of pupils can be formed?*
(b) How many pupils are there in each group?

Notes for Teachers:

This is an open-ended question. Teachers can assess the performance of their pupils using the following criteria:

1. Do pupils understand the problem and solve the problem by using division?
2. Does the solution satisfy the requirements of the problem?
3. Can pupils give two or more solutions?
4. Can pupils present the solutions systematically?

This exemplar mainly involves the following generic skills:

1. Communication Skills

- Explain how groups are formed
- Explain how pupils know that their answers are correct
- Explain how the problems are solved

2. Numeracy Skills

- Demonstrate numeracy skills in dividing pupils into equal groups properly

3. Problem-solving Skills

- Transfer knowledge of basic multiplication and solve the problem
- Record results systematically