

TEACHING MATHS BY TIGER METHOD

WEEK : FROM JUNE 24 TO 28

CLASS : 7

LESSON : 1. NUMBER SYSTEM [1.5 Division of Integers]

PAGES : 22 TO 25

LEARNING OUTCOMES : To understand the concept of division of integers and its properties

TEACHING AIDS:

Black board, Projector, mobile phone.

1. INTRODUCTION : (10 minutes)

A. Motivation

I make use the 'Number converter' activity which is given at page no 22 for motivation.

B. Recalling

Convert the following multiplication statements into two division statements

(i) $7 \times 4 = 28$ (ii) $(-5) \times 8 = 40$ (iii) $(-2) \times (-3) = 6$

2. SURVEY : (10 minutes)

Asking the students to read the pages from 22 to 24 and guiding them to notice the main concepts & formulas.

3. UNDERSTANDING : (15 minutes)

A. concept

- * The division of two integers with the same sign is a positive integer. $[8 \div 4 = 2 ; (-12) \div (-4) = 3]$
- * The division of two integers with opposite signs gives a negative integer $[(-4) \div 2 = -2 ; 6 \div (-3) = -2]$
- * The collection of integers is not closed under division.
- * Division of integers are neither commutative nor associative.

B. Teacher solving problems

1) , 3) i) , ii)



exercise 1.4

C. Students solving problems

2) , 3) iii) , iv)



exercise 1.4.

4. GROUP WORK : (10 minutes)

A. Teacher solving problems



exercise 1.4

4) , 6)

B. Students solving problems



exercise 1.4.

5) , 7) , 8) , 11) , 12)

5. REINFORCEMENT : (15 minutes)

* I show some useful Youtube videos
Division of Integers and it's properties

<https://youtu.be/b6JaiKvEP9Y>

* I use the "In & out" activity given at
Page no 23. FA(a) activity

6. EVALUATION : (15 minutes)

1. Fill in the blanks

LOT

(a) $(-36) \div 9 = \text{---}$

(b) $(-40) \div (-5) = \text{---}$

MOT

2. How many 8's are there in -24?

HOT

3. Sum no's 14 and 17 in Exercise 1.6 [challenge problems]

7. REMEDIAL TEACHING : (15 minutes)

I ask the students to assume that one mouth is as positive (+) sign and two ears as two negative (-) signs. If we want to multiply/divide two negative (-) integers, we close our two ears. Now our mouth is open. So, the result is positive. We can illustrate $(-) \times (+) = (-)$ like this.

8. WRITING :

Exercise 1.4

9) , 10) , 13) , 14)

9. FOLLOW UP WORK :

FA (a) activity
Students will be asked to illustrate the statement
"Division of integers are neither commutative nor associative" with examples.