S.1 MATHEMATICS

Sub topic 2.2: Differentiating between natural numbers and whole numbers/integers

Activity 2.3:

Relating natural numbers and integers In groups, read the text below and answer the questions that follow:

Two learners—Mary and Joy—went to the school canteen to buy some snacks for their breakfast. Joy bought 3 pancakes at UGX.200 each and 1 ban at UGX. 300.

Mary checked her bag and found out that her money was stolen. She borrowed some money from Joy. She bought four 4 pancakes and 2 bans.

Questions

- Which of the two learners had more money? i)
- How much money did Mary borrow from Joy? ii)
- iii) Peter said that Mary had negative UGX. 1400. Was he correct? Give reasons for your answer.

Addition and subtraction of integers

Activity 2.4

2. Work out the following:

a)
$$8 + -6$$
 b) $61 + +7$

b)
$$61 + 7$$
 c) $49 - 30$ d) $77 - 50$ e) $-15 + 20$

3. Using a number line work out:

a)
$$-2 + + 3$$

b)
$$+5 + -6$$
 c) $-8 - -5$

$$c) - 8 - -5$$

4. A national park guide on one of the mountains in East Africa recorded the temperature as 15°C one day. At midnight the temperature was -7°C. By how many degrees had the temperature fallen?

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5. Write down the next 3 terms in the sequence - 9, -7, - 5, -3, -, -; -

Multiplication and division of integers

Activity 2.5

Work out

1.
$$-2 \times +4 \times -3$$

2.
$$-4 \times +2 \times -3$$

3.
$$-3 \times -5 \times +2$$

4.
$$-12 \times -5 \div +6$$

$$5 - 15 \div 5 \times -4$$

6.
$$-24 \times +4 \div +2$$

7. In a certain test a correct answer scores 3marks and an incorrect answer, the child gets a penalty of two marks deducted. Joy guessed all the answers. She got 6 correct and 4 wrong. Work out her total marks.

8. Simplify
$$+6 - +7 \div +4 + + 6 \times +7$$

9. Work out 7 of
$$13 - (18 \div 6 + 3) \div (9 \times 3 - 25)$$

10.
$$56 - (38 - 35 \div 5 + 2)$$

11.
$$69 \div (6 + (3 \times 8 - 7))$$

12. 4 of
$$(5+2) - 2(3+7) \div 5$$

Find the Prime Factors of any Number

Activity 2.6

Find	the	factors	of the	follo	owing:

- 1.42
- 2.56
- 3.36
- 4. 108

Find the multiples of the following:

- 5. 7
- 6. 12
- 7.9
- 8.5

Note: A factor of a number which is a prime number is called its prime factor. For example the factors of 36 are $\{36,12,9,6,4,3,2,1\}$

- 9. What are the prime factors of 36?
- 10. Write 36 as a product of its prime factors.

THE END.

NOTE: Do the numbers in your holiday work book

