## 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

i) Which of the two learners had more money?
ii) How much money did Mary borrow from Joy?
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) $61++7$
c) $49-30$
d) $77-+50$
e) $-15++20$
f) $-3--13$

## 3. Using a number line work out:

a) $-2++3$
b) $+5+-6$
c) $-8--5$
4. A national park guide on one of the mountains in East Africa recorded the temperature as $15^{\circ} \mathrm{C}$ one day. At midnight the temperature was $-7{ }^{\circ} \mathrm{C}$. By how many degrees had the temperature fallen?
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. $-2 x+4 \times-3$
2. $-4 x+2 x-3$
3. $-3 \times-5 x+2$
4. $-12 \times-5 \div+6$
$5-15 \div 5 \times-4$
5. $-24 \times+4 \div+2$
6. In a certain test a correct answer scores 3 marks 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.
7. Simplify $+6-+7 \div+4++6 \times+7$
8. Work out 7 of $13-(18 \div 6+3) \div(9 \times 3-25)$
9. $56-(38-35 \div 5+2)$
10. $69 \div(6+(3 \times 8-7))$
11. 4 of $(5+2)-2(3+7) \div 5$

## Find the Prime Factors of any Number

## Activity 2.6

Find the factors of the following:

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 $\{\mathbf{3 6 , 1 2 , 9 , 6 , 4 , 3 , 2 , 1}\}$
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

