SN Kansagara School

TGES The Galaxy Education System
TEACH | GROW | EMPOWER | SYNERGISE

INTRODUCTION OF INTEGERS WORKSHEET

Ass. Date : **03/09/14**	Name	Sub.Date : **10/09/14**
Subiect: Mathematics	Standard: **6 TU**	2014-2015

What are we going to learn.....

Make a new booklet and write all points which are discussed in class. (class notes)

⇨The need for new numbers:

1) **when we want to say temperature above zero and below zero.**
2) **When a businessman want to show his profit and los**
3) **Show the direction (Which are equal and opposite)**
4) **Height below and above sea level**

⇨Directed Numbers

+2 AND -5 are read as positive two and negative five and are called directed numbers

⇨Extending a number line

⇨Numbers on the left and right on the number line

⇨Order of numbers on number line

⇨Order of number in the left and right of the number line

⇨Is zero a positive or a Negative Number?

⇨Opposite numbers on number line:

⇨Another name for opposite numbers- Additive Inverse

⇨Ordering of integers

⇨Successor and predecessor of numbers

⇨Absolute value

⇨Image of a number

⇨Negative of a negative integer

⇨Showing changes on number line

Now solve the following sums:

1. Write any five statement which will need a positive integers to indicate.
2. Write any five statement which will need a negative integers to indicate.
3. How will you read following directed numbers (integers)

   (a) +4 (b) - 8 (c) +14 (d) -90 (e) -104

4. Indicate the following by using integers:

   (a) Temperature of 28^0C (b) Height of place 35 km down the sea level

   (c) A loss of Rs 350 in a transaction (d) Gaining a weight of 2 kg

   (d) A Withdrawal of Rs 2000 from bank account

   (e) 4^0C below zero (f) Earning Rs 6000

   (g) Win by 45 runs (h) Going 3 floors down in the lift

5. Is 0 a positive or negative integer? (Write Yes/No)
6. Draw a number line and show on it the following integers:

   -2, 5, 2, 0, 3 and -1

7. Mark the opposite of following numbers on number line:

   -5, 3, -2 and 1

8. Write the opposite of following numbers(not to draw number line):

   (a) -6 (b) 8 (c) -96 (d) -34

9. Write the additive inverse of following numbers:

   (a) 23 (b) -16 (c) 100 (d) -89

10. Arrange the following integers in ascending order:

    (a) 9, -6, 4, 0, -4 (b) -23, -16, 29, 12, 22

11. Arrange the following integers in descending order:

    (a) -6, 4, -3, -2, 5 (b) 12, -4, 11, -9, 3

12. Write the successor of following integers:

    (a) 23 (b) 98 (c) -6 (d) -21

13. Write the predecessor of following integers:

    (a) 4 (b) -12 (c) -82 (d) 23

14. Write the value of following

    |-5|, |20|, |-11|, |20 - 6|, |-32|

15. Write the absolute value of following:

    (a) 14 (b) -34 (c) -100 (d) 12 - 8

16. Write the mirror image of the following integers:

    (a) 12 (b) -34 (c) 89 (d) - 99

17. Write the number which lies in the left of the given number on the number line:

    (a) 15 (b) -32 (c) 54 (d) -87

18. Write the number which lies in the right of the given number on the number line::

    (a) 51 (b) 38 (c) -45 (d) -78

19. Write down the next two numbers in the following pattern of numbers:

    (a) 7, 4, 1 -2, _____, _____ (b) -8, -6, -4, -2, _____, _____

20. Write down all the integers larger than -5 and smaller than 4 and are even.

21. Replace each * by < or > to make the following statement true:

    (a) 12 * 15 (b) -3 * 2 (c) 12 * -6 (d) 4 * -3 (e) -23 * 15

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