SAINIK SCHOOL GOPALGANJ
SUB: MATHEMATICS
CLASS - VII

ASSIGNMENT

Lesson: 1: Integers

Q1. What is the value of $(-22)-[(-23)-(-17)-(-61)](-22)-[(-23)-(-17)-(-61)]$

Q2. What should be subtracted from -9876 to obtain -9512?

Q3. The temperature of a city is 4^0C. Next day the temperature falls by 5^0C. What is the temperature of the city next day?

Q4. Fill in the blanks
(a) Sum of integer and its additive inverse is _____

(b) Sum of -22 and   -44 is _____

(c) -36 ÷ (_____)=   -9

(d) _____ is absolute value of -998

Q5. Mark the correct option.
(i) Sum of two negative numbers is always

      a.   Positive
      b.   Negative
      c.   0
      d.   1

(ii) Which property is reflected in this equation 7×5=5×7.
      e.   Closure
      f.   Commutative
      g.   Associative
      h.   Distributive

Q6. A diver descends 20 feet in the water from the boat at the surface of a lake. He then rose 12 feet and descends another 18 feet. At this point what is his depth in water?

Q7. Verify a-(-b) =a + b for the following values of 'a' and 'b'

    a.   a=34   b=73
    b.   a=45   b=30
    c.

Q8. Write down the pair of integers whose

    a.   Sum is -4
    b.   Sum is 0
    c.   Difference is 2
    d.   Difference is -6

Q10. Evaluate

    a. (-100)÷5
    b. (-36)÷(-4)
    c. (0)÷(-12)
    d. [(-30)÷5]÷2
    e. (-40)÷40

Q 11. The price of the stock decreases Rs. 45 per day for four consecutive days. What was the total change in value of the stock over 4 day period?

Q12. A group of hikers is descending the mountain at a rate of 600 feet per hour. What is the change in elevation of hiker after 6 hours?

Q 13. An elevator descends into a mine shaft at the rate of 6 m/min. If the descent starts from 10 m above the ground level, how long will it take to reach -350 m.

Q14. In a test (+5) marks are given for every correct answer and (-2) marks are given for every incorrect answer.

    i.   Radhika answered all the questions and scored 30 marks and get 10 correct answers
    ii.   Jay also answered all the questions and scored (-12) marks though he got 4 correct answers
How many incorrect answers had they attempted?

Q15. In a test (+5) marks are given for every correct answer and (-2) marks are given for every incorrect answer and 0 for answer not attempted. Ram gets 3 correct and 4 incorrect out of 7 questions he attempted. What is his score?

Word Problem

Q1. Write a positive integer and a negative integer whose sum is a negative integer.

Q2. Write a positive integer and a negative integer whose sum is a positive integer.

Q3. Write a positive integer and a negative integer whose difference is a negative integer.

Q4. Write a positive integer and a negative integer whose difference is a positive integer.

Q5. Write two integers which are smaller than – 5 but their difference is – 5.

Q6. Write two integers which are greater than – 10 but their sum is smaller than – 10.

Q7. Write two integers which are greater than – 4 but their difference is smaller than – 4.

Q8. Write two integers which are smaller than – 6 but their difference is greater than – 6.

Q9. Write two negative integers whose difference is 7.

Q10. Write two integers such that one is smaller than –11, and other is greater than –11 but their difference is –11.

Q11. Write two integers whose product is smaller than both the integers.

Q12. Write two integers whose product is greater than both the integers.

Q13. Find the Sum

1. 82+(-47)=	2. 89+95=	3. -73+61=
4. -29+(-44)=	5. 31+63=	6. 82+(-26)=
7. 34+25=	8. 24+68=	9. -74+(-51)=

Q14. Find the additive inverse of

1. -83=	2. 22=	3. 0=
4. -3002=	5. +33=	6. -74=

Q15. Fill in the blanks using options given in column 2

1. _____ is the _____ of addition	• addition
2. The expression 4×5 and 5×4 are equal by the _____	• Associative property
3. The expression 2+(3+4) and (2+3)+4 are equal by the _____	• Commutative property
4. Multiplication and _____ are opposite operations	• Division • multiplication
5. _____ and _____ are commutative	• Opposite operations • subtraction