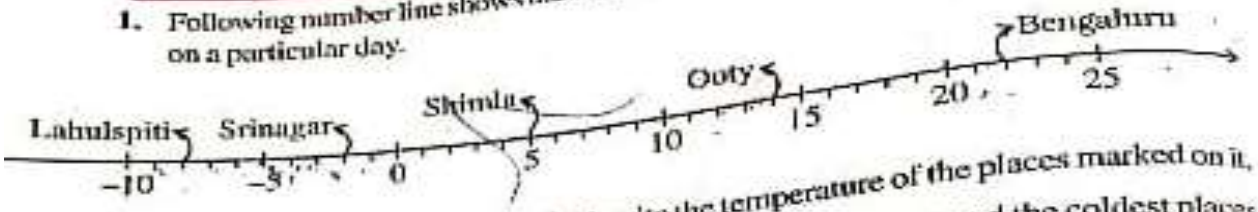
Worksheet -5 Subject: - Mathematics Class: - VII Teacher: - Ms. Neeru

Name: _____ Class & Sec: _____ Roll No. _____ Date: 17.04.2020

Topic: Integer

EXERCISE 1.1

1. Following number line shows the temperature in degree celsius (°C) at different places on a particular day.



(a) Observe this number line and write the temperature of the places marked on it.

(b) What is the temperature difference between the hottest and the coldest places among the above?

(c) What is the temperature difference between Lahulspiti and Srinagar?

(d) Can we say temperature of Srinagar and Shimla taken together is less than the temperature at Shimla? Is it also less than the temperature at Srinagar?

2. In a quiz, positive marks are given for correct answers and negative marks are given for incorrect answers. If Jack's scores in five successive rounds were 25, −5, −10, 15 and 10, what was his total at the end?

3. At Srinagar temperature was −5°C on Monday and then it dropped by 2°C on Tuesday. What was the temperature of Srinagar on Tuesday? On Wednesday, it rose by 4°C. What was the temperature on this day?

4. A plane is flying at the height of 5000 m above the sea level. At a particular point, it is exactly above a submarine floating 1200 m below the sea level. What is the vertical distance between them?

5. Mohan deposits ₹ 2,000 in his bank account and withdraws ₹1,642 from it, the next day. If withdrawal of amount from the account is represented by a negative integer, then how will you represent the amount deposited? Find the balance in Mohan's account after the withdrawal.

6. Rita goes 20 km towards east from a point A to the point B. From B, she moves 30 km towards west along the same road. If the distance towards east is represented by a positive integer then, how will you represent the distance travelled towards west? By which integer will you represent her final position from A?

8. Verify $a-(-b)=a+b$ for the following values of a and b.

(i) $a=21, b=18$ (ii) $a=118, b=125$

(iii) $a=75, b=84$ (iv) $a=28, b=11$

9. Use the sign of $>, <$ or $=$ in the box to make the statements true

(a) $(-8)+(-4)$ ☐ $(-8)-(-4)$

(b) $(-3)+7-(19)$ ☐ $15-8+(-9)$

(c) $23-41+11$ ☐ $23-41-11$

(d) $39+(-24)-(15)$ ☐ $36+(-52)-(-36)$

(e) $-231+79+51$ ☐ $-399+159+81$

10. Write:

(i) The rational number that does not have a reciprocal. 0

(ii) The rational numbers that are equal to their reciprocals. multiplicative ; −1

(iii) The rational number that is equal to its negative. 0

11. Fill in the blanks.

(i) Zero has No reciprocal.

(ii) The numbers 1 and −1 are their own reciprocals

(iii) The reciprocal of −5 is $\frac{-1}{5}$.

(iv) Reciprocal of $\frac{1}{x}$, where $x \neq 0$ is x.

(v) The product of two rational numbers is always a Rat. No.

(vi) The reciprocal of a positive rational number is positive