

12.5.2)

NEGATIVE NUMBERS AND INTEGERS

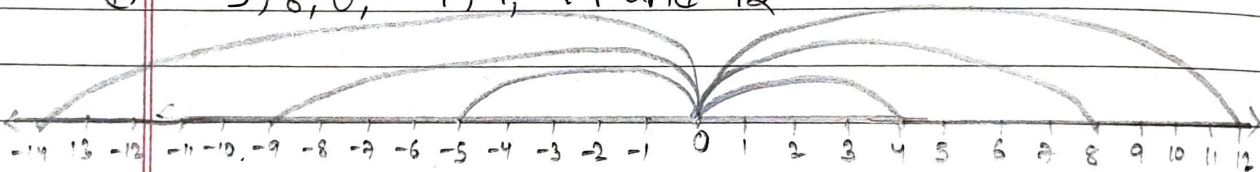


1. Fill in the blanks :

- i) Negative of -20 is 20 .
- ii) Negative of 0 is 0 .
- iii) Negative of 8 is -8 .
- iv) If 10 represents gain of ₹ 10 , then -10 represents loss of ₹ 10 .
- v) If going south is negative then going north is Positive.
- vi) Because $5 > 7$, therefore $-5 > -7$.
- vii) If $3 > -2$, then 3 is on the right side of -2 .
- viii) If $-8 < -6$, then -8 is on the left side of -6 .

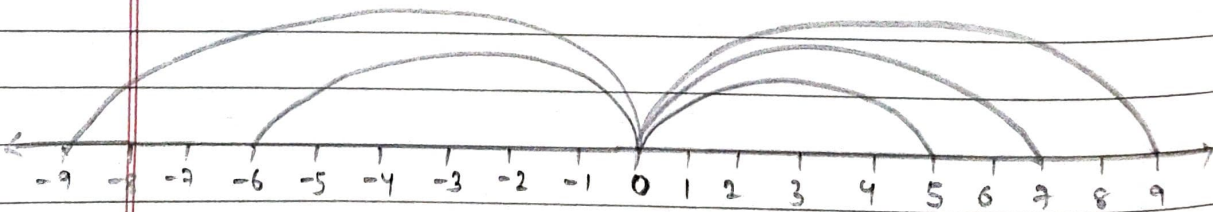
2. Use a number line to write the following integers in ascending (increasing) order :

(i) $-5, 8, 0, -9, 4, -14$ and 12



$$-14 < -9 < -5 < 0 < 4 < 8 < 12$$

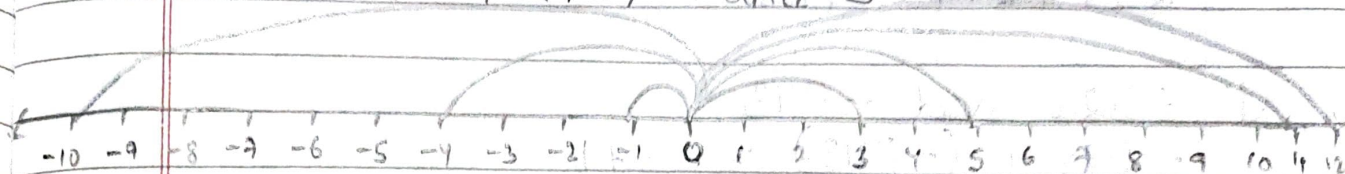
(ii) $-6, 7, 0, -9, 5$ and 9



$$-9 < -6 < 0 < 5 < 7 < 9$$

3. Use a number line to write the following integers in descending (decreasing) order:

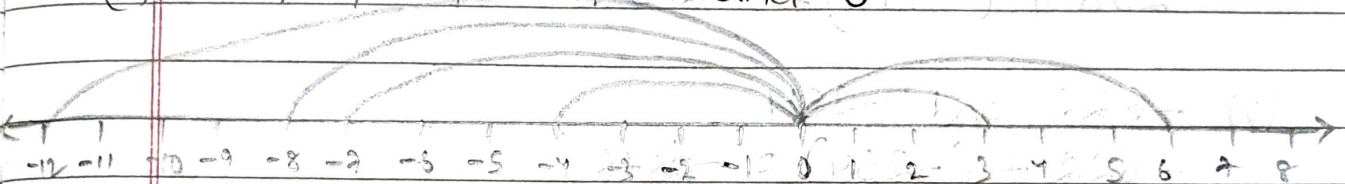
(i) -10, 0, 3, -4, 12, 11, -1 and 5



~~12~~ $12 > 11 > 5 > 3 > 0 > -1 > -4 > -10$

~~11~~ ~~and~~ ~~orders~~

(ii) -4, 3, -8, -12, -7 and 6



$6 > 3 > 0 > -1 > -4 > -7 > -8 > -12$

4. Add:

(i) 13 and 15

$$13 + 15 = 28$$

(ii) -13 and 15

$$-13 + 15 = 2$$

(iii) 13 and -15

$$13 + (-15) = -2$$

(iv) -13 and -15

$$-13 + (-15) = -28$$

5. Add:

(i) 259 and 214

$$259 + 214 = 473$$

(ii) -528 and -243

$$-528 + (-243) = -771$$

(iii) -623 and 326

$$-623 + 326 = -297$$

(iv) 258 and -473

$$258 + (-473) = -215$$

(v) -622 and -254

$$-622 + (-254) = -876$$

(vi) 257 and -254

$$257 + (-254) = 3$$

6. Subtract:

(i) 5 from 8

$$8 - 5 = 3$$

(ii) -5 from 8

$$8 - (-5) = 8 + 5 = 13$$

(iii) 4 from -7

$$-7 - 4 = -11$$

(iv) -8 from -2

$$-2 - (-8) = (-2) + 8 = 6$$

$$-2 - (-8) = -2 + 8 = 6$$

(v) -3 from 12

$$12 - (-3) = 12 + 3 = 15$$

(vi) -6 from -3

$$-3 - (-6) = -3 + 6 = 3$$

7. Subtract :

(i) -123 from 453

$$453 - (-123) = 576$$

(ii) -78 from -12

$$-12 - (-78) = -12 + 78 = 66$$

(iii) 329 from -124

$$-124 - 329 = -453$$

(iv) -222 from 0

$$0 - 222 = 222.$$

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