

Tender Heart High School ; Sec- 33 B, Chandigarh

Class : V

Subject : Mathematics

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Teacher : Ms. Sushma

Relationship between HCF and LCM

$LCM \times HCF = \text{product of two numbers.}$

Exercise 6.7

Answer these questions.

1. The product ----- find the HCF

Soln:- The product of two numbers = 480

$$LCM = 120$$

$$HCF = 480 \div 120$$

$$= 48 \div 12 = 4$$

$$\boxed{\therefore HCF = 4}$$

2. The HCF and LCM ----- other number.

Soln:- The HCF of two numbers = 4

The LCM of two numbers = 252

$$\text{one number} = 36$$

$$\text{other number} = 4 \times 252 \div 36$$

$$= 1008 \div 36$$

$$= 28 \text{ Ans.}$$

3. The product of two ----- find their LCM.

Soln:- The product of two numbers = 3675

$$HCF = 35$$

$$LCM = 3675 \div 35 = 105$$

$$LCM = 105 \text{ Ans}$$

Q4. The HCF and LCM other number.

Soln:- The HCF of two numbers = 48

The LCM " " " = 288

one no. = 96

other no = $(48 \times 288) \div 96$

= $13,824 \div 96$

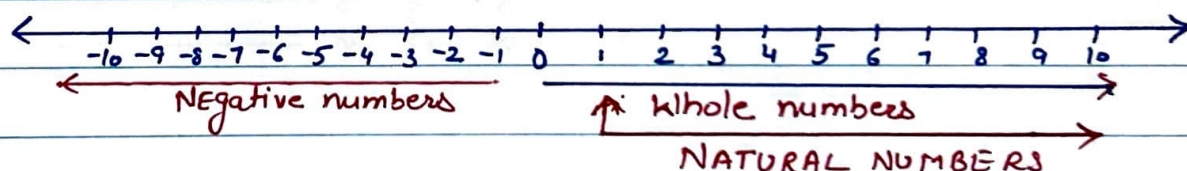
So, other number = 144 Ans.

Ch-7 INTRODUCTION OF NEGATIVE NUMBERS

Negative Numbers:- The numbers less than 0 are called negative numbers. eg:- -1, -2, 3, ...

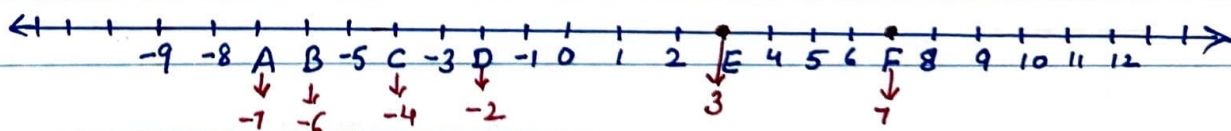
* Negative numbers lie to the left of 0 on the number ray

INTEGERS:- Whole numbers along with negative numbers are called integers.



Exercise 7.1

A. Identify the numbers denoted by the letters given on the number line.



B. Write the opposite of each of the following.

1. 5m below sea level → 5m above sea level

2. 25°C above 0°C → 25°C above 0°C

3. The deposit of ₹ 3000 in the bank
→ The withdrawal of ₹ 3000 in the bank

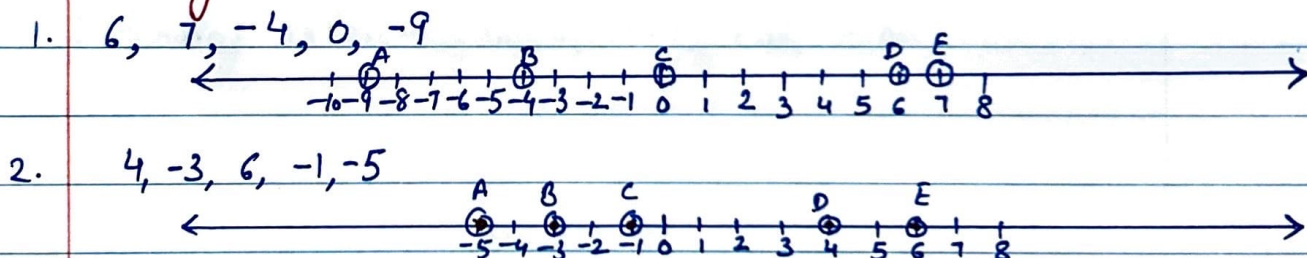
4. 420m above sea level
→ 420m below sea level.

E Write each as an integer with the appropriate sign.

1. 11°C below 0°C → -11°C
2. The withdrawal of ₹ 1700 from the bank → $-\text{₹ } 1700$
3. 200m below sea level → -200m
4. 2000m above sea level → $+2000\text{m}$

Exercise 7.2

A. Arrange the numbers on the number line.



B. Write each of the following

1. Integers between -15 and -11 in ascending order → -14, -13, -12
2. Integers between -2 and 2 in descending order → 1, 0, -1
3. (a) -8 is smaller than -3
(b) -5 is smaller than 0
(c) -12 is smaller than 12
4. (a) 2 is greater than -3
(b) -1 is greater than -5
(c) 0 is greater than -10

C. Put $>$ or $<$ in the $\bigcirc$.

1. $-2 \bigcirc 2$

3. $16 \bigcirc -16$

2. $7 \bigcirc -17$

4. $-100 \bigcirc 0$

D. Arrange the numbers in ascending order.

1. $-3, 0, 3, -13, 18$

→ Ascending order → $-13, -3, 0, 3, 18$

2. $-100, 230, -225, 6, 89$

→ Ascending order: → $-225, -100, 6, 89, 230$

E. Arrange the numbers in descending order.

1. $0, -23, 2, -18, 9$

Descending order → ~~23~~, $9, 2, 0, -18, -23$

2. $-19, 1, -28, -100, 36$

Descending order: - $36, 1, -19, -28, -100$

Exercise 7.3

A Find the additive inverse.

1. -15

Additive inverse of -15 is 15

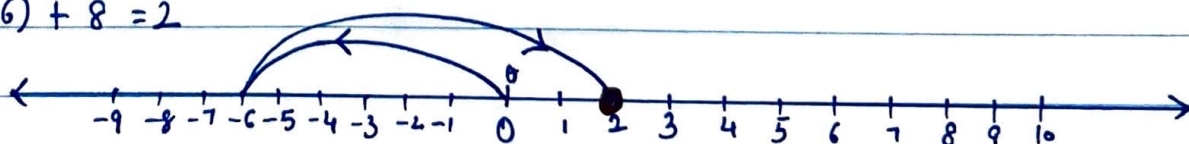
2. Additive inverse of $+22$ is -22

3. Additive inverse of 14 is -14

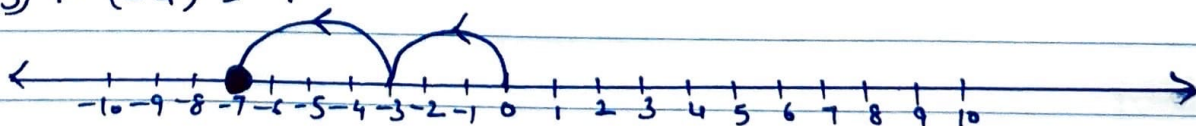
4. Additive inverse of -99 is 99 .

B. Use a number line to add.

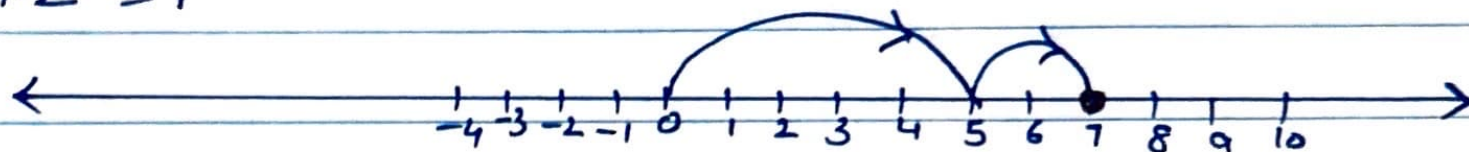
1. $(-6) + 8 = 2$



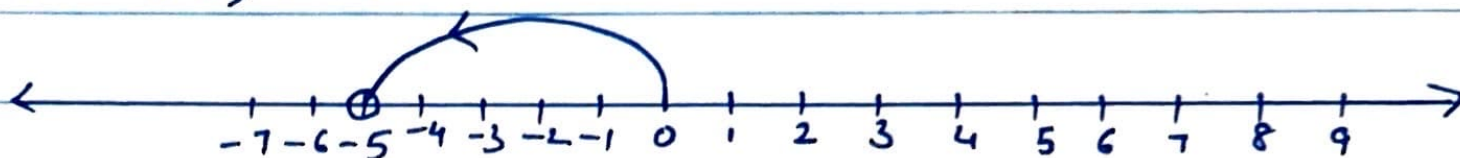
2. $(-3) + (-4) = -7$



3. $5 + 2 = 7$



4. $0 + (-5) = -5$



C. Find the sum using the rules of addition.

(i) $11 + (-8) = 11 - 8 = 3$

(ii) $(-19) + 28 = -19 + 28 = 9$

(iii) $(-100) + 49 = -100 + 49 = 51$

(iv) $(-135) + (-255) = -135 - 255 = -390$

(v) $100 + (-200) = 100 - 200 = -100$

(vi) $(-43) + 43 = -43 + 43 = 0$