Ex- 10CD

1. state whether the given set is infinite or finite :-

(i) {3, 5, 7 ____} infinite

(ii) {1, 2, 3, 4} finite

(iii) {____, -3, -2, -1, 0, 1, 2} infinite

(iv) {20, 30, 40, 50 ____, 200} finite

2. Which of the following sets is empty?

(i) Set of counting numbers between 5 and 6.

Ans- Set of country or numbers between 5 and 6 (empty)

(ii) Set of odd numbers between 7 and 19.

(iii) Set of odd number between 7 and 9. (empty)

(viii) x is a factor of y, then y is a multiple of x.

2. write all the factors of

(i) 16

Ans- 1, 2, 4, 8 and 16

(ii) 21

Ans- 1, 3, 7 and 21

(iii) 39

Ans: 1, 3, 13, 39

(iv) 48

Ans- 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

(v) 64

Ans- 1, 2, 4, 8, 16, 64

(vi) 98

Ans- 1, 2, 7, 14, 49

(3) write all the factors of :-

(i) 44

Ans = 1, 2, 4, 11, 22, 44

(ii) 3rd 9

Ans = 9, 18, 27, 36, 45, 54

(iii) [illegible] 11

Ans = 11, 22, 33, 44, 55, 66

(iv) 15

Ans = 15, 30, 45, 60, 75, 90

(v) 18

Ans = 18, 36, 54, 72, 90, 108

(4) the product of two numbers is 36 and their sum is 13. find the numbers

Since, $36 = 1 \times 36, 2 \times 18, 3 \times 12, 4 \times 9, 6 \times 6$