SESSION : 21

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 8

CHAPTER NAME : FACTORS AND MULTIPLES

SUB-TOPIC : Activity – Sieve of Eratosthenes

Exercise – 8 A Q. No. 6 to 11

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LEARNING OBJECTIVE :

Enable the students

- **To understand the difference between multiples and factors**
- **To understand the concept of prime, composite, co-prime and twin prime numbers.**
- **To understand the properties of Factors and multiples.**

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Let's revise

Prime Number & Composite Numbers

SIEVE OF ERATOSTHENES

	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

Prime numbers

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EXERCISE 8 [A]

5. Find the multiples :

a. Find the first six multiples of 9 : 9, 18, 27, 36, 45 and 54

b. Find the seventh multiple of 16 : 112

c. Find the fifth multiple of 15 : 75

d. Find the ninth multiple of 16 : 144

e. Find the multiples of 11 greater than 55 but less than 180 :

66, 77, 88, 99, 110, 121, 132, 143, 154, 165, 176

f. Find the multiples of 15 greater than 120 but less than 225 :

135, 150, 165, 180, 195, 210

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EXERCISE 8 [A]

6. Write down the prime numbers between :

a. 50 to 65 — 53, 59, and 61

b. 80 to 100 — 83, 89 and 97

c. 110 to 125 — 113

EXERCISE 8 [A]

7. Write down the composite numbers between :

a. 70 to 80 : 72, 74, 75, 76, 77, and 78

b. 100 to 110 :

102, 104, 105, 106 and 108

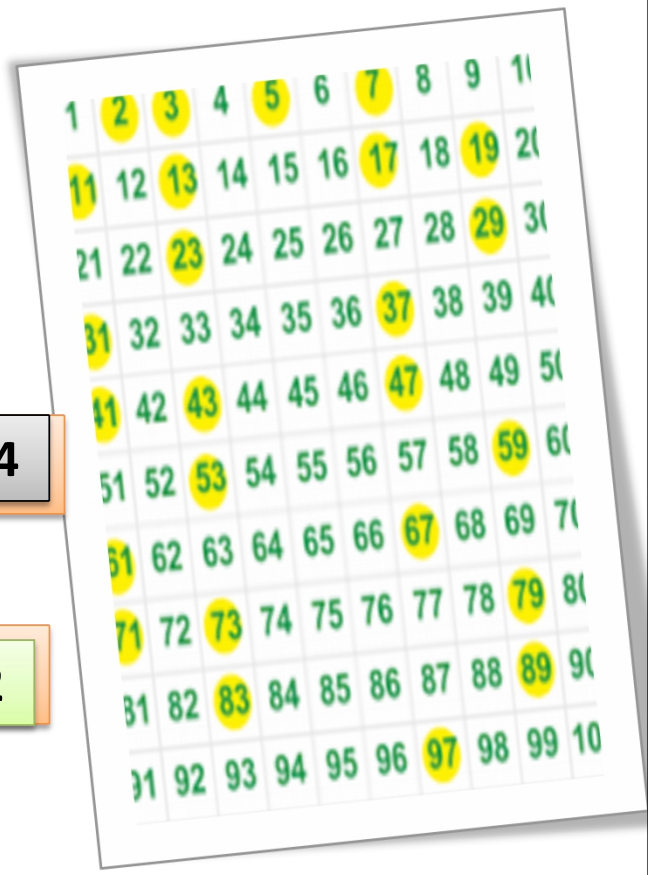
c. 40 to 50 : 42, 44, 45, 46, 48, and 49

EXERCISE 8 [A]

8. Is 1 a prime number ? NO

9. What is the smallest composite number ? 4

10. Write the prime number which is even. 2



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EXERCISE 8 [A]

11. Find the prime factors of the following numbers :
27, 35, 63, 91, 100, 77, 54, and 143.

a)

$$\begin{array}{r|l} 3 & 27 \\ \hline 3 & 9 \\ \hline & 3 \end{array}$$

So, Prime factors of 27 is 3.

b)

$$\begin{array}{r|l} 5 & 35 \\ \hline & 7 \end{array}$$

So, Prime factors of 35 are 5 and 7.

c)

$$\begin{array}{r|l} 3 & 63 \\ \hline 3 & 21 \\ \hline & 7 \end{array}$$

So, Prime factors of 63 are 3 and 7.

d)

$$\begin{array}{r|l} 7 & 91 \\ \hline & 13 \end{array}$$

So, Prime factors of 91 is 7 and 13.

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EXERCISE 8 [A]

11. Find the prime factors of the following numbers :
27, 35, 63, 91, 100, 77, 54, and 143.

e)

2	100
2	50
5	25
	5

So, Prime factors of 100 are 2 and 5.

f)

7	77
	11

So, Prime factors of 77 are 7 and 11.

g)

2	54
3	27
3	9
	3

So, Prime factors of 54 are 2 and 3.

d)

11	143
	13

So, Prime factors of 143 is 11 and 13.

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HOME ASSIGNMENT:

- **Complete Exercise – 8 (A) Q.NO. 6 to 11 in your note book.**

LEARNING OUTCOME:

Students are able

- **To understand the difference between multiples and factors**
- **To understand the concept of prime, composite, co-prime and twin prime numbers.**
- **To understand the properties of Factors and multiples.**

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THANKING YOU

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