SESSION : 10
CLASS : IV
SUBJECT : MATHEMATICS
CHAPTER NUMBER : 10
CHAPTER NAME : FACTORS AND MULTIPLES
SUBTOPIC : MULTIPLES AND PROPERTIES OF
MULTIPLES, EX-10 C

LEARNING OBJECTIVE

- **Enable the students to understand the concept of multiples and their properties.**

Multiples

5	×	1	=	5
5	×	2	=	10
5	×	3	=	15
5	×	4	=	20
5	×	5	=	25
5	×	6	=	30
5	×	7	=	35
5	×	8	=	40
5	×	9	=	45
5	×	10	=	50

Here, **5**, **10**, **15**, **20**, **25 and so on** are all multiples of 5.

When we multiply **two given numbers**, their product is a multiple of **each of the numbers**.

For **example**,

Here, **5 × 6** = 30

Here, 5 × 6 = 30

Here, 5 × 6 = 30

Similarly, **4 × 7** = **28**. here, **28** is a multiple of both **4** and **7**.

Properties of Multiples

1.   The smallest multiple of a number is **the number itself**.

Properties of Multiples

2.   Every number is a multiple of **1**.

Every number is a multiple of **itself**.

(e.g.) **1 × 15** = **15**. so, **15** is a multiple of **1** and **15**.

Properties of Multiples

3.   **0** is a multiple of every number.

$25 \times 0 = 0$; $36 \times 0 = 0$. $9 \times 0 = 0$.

Thus, **0** is a multiple of every number.

Properties of Multiples

4. Every (**non-zero**) multiple of a whole number is either greater than or **equal** to the number. (e.g.) multiples of **6** are **6**, **12**, **18**, **24,…..**

The smallest multiples of **6** and the other multiples of **6** are greater than **6**.

Properties of Multiples

5.   Multiples of a number are infinite (i.e.) they carry **on** and **on**.

e.g. multiples of **20** are **20**, **40**, **60**, **80**, **…….**

MULTIPLES

Exercise 10(C)

1. Fill in the blanks :

(a) The multiples of a even number is always _____**even**_____ .

(b) The multiple of an _____**odd**_____ number may be odd or even.

(c) _____**0**_____ is the whole number which is a multiple of every number.

(d) Every number is multiple of _____**1**_____ and _____**itself**_____ .

(e) The multiples of any number are _____**infinite**_____ .

MULTIPLES

Exercise 10(C)

1. Fill in the blanks :

    (f) 18 is a multiple of 3 and _____**6**_____.

    (g) 14 is a multiple of 2 and _____**7**_____.

    (h) 15 is a multiple of 5 and _____**3**_____.

    (i) The next multiple of 4 after 20 is _____**24**_____.

    (j) The next multiple of 10 after 50 is _____**60**_____.

MULTIPLES

Exercise 10(C)

2. Write the next six multiples of the following :

(a) 3, 6 __9__, __12__, __15__, __18__, __21__, __24__,

(b) 4, 8 __12__, __16__, __20__, __24__, __28__, __32__,

MULTIPLES

Exercise 10(C)

3.   Find three common multiples of the following :

(a)   2 and 5 ___**10, 20, 30**___ .   (b)   3 and 4 ___**12, 24, 36**___ .

(c)   7 and 3 ___**21, 42, 63**___ .   (d)   10 and 4 ___**20, 40, 60**___ .

(e)   6 and 8 ___**24, 48, 72**___ .   (f)   5 and 7 ___**35, 70, 105**___ .

MULTIPLES

4. Circle the numbers which are the multiples of 4 and cross (X) the multiples of 10. After that write the common multiples of 4 and 10 :

④ ⑧ ⑩✗ ⑫ ⑯ ⑳✗ ㉔ ㉘ 30✗ ㉜

㊱ ⑩✗ ㊽ ⑳✗...

4   8   10✗   12   16   20✗   24   28   30✗   32

36   40✗   44   48   52   56   60✗   64   68   72

76   80✗   84   88   92   96   100✗

Common multiples are : _____**20, 40, 60, 80, 100**_____.

MULTIPLES

5. Circle the multiples of the given numbers :

6	6,	10,	18,	30,	32,	36,	40,	48,	54,	60,	72
3	18,	19,	21,	24,	28,	30,	31,	34,	36,	42	
11	22,	24,	28,	33,	44,	46,	51,	55,	62,	66	
15	30,	45,	49,	50,	55,	60,	64,	70,	75,	80,	85

HOME ASSIGNMENT:

➢ **Complete Exercise – 10 (C)in your note book.**

LEARNING OUTCOME:

Students are able to understand the concept of multiples and their properties.

THANKING YOU
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