Preactivity - Lets Begin from T.B.Pg.124

Answer the following questions.

Concrete Stage

Use 'Counters' to find the first five multiples of the given numbers.

		1st	2nd	3rd	4th	5th
a	8	8	16	24	32	40
b	7	7	14	21	28	35

Pictorial Stage

1. Observe the number lines, draw arrows, and fill in the boxes with the multiples.

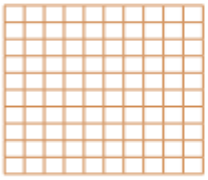
a $6 \times 4 =$ 24

b $11 \times 3 =$ 33

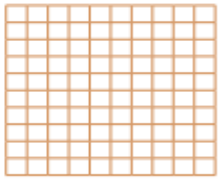
T.B. Pg no. 126

2. Colour the array and find the multiples.

a $3 \times 9 =$ 27



b $4 \times 6 =$ 24



Abstract Stage

1. Circle the multiples of 8 and cross out the multiples of 7.

64 40 56 48 ~~49~~

2. Do as directed.

a Colour the sum of 2nd and 4th multiples of 3 in blue.
b Cross the difference between 8th and 5th multiples of 4.
c Colour the multiples of 10 in green.
d Circle the multiples of 9.

6	27	17	14	23
61	18	20	32	36
54	30	15	12	81
40	99	33	45	42

3. Sam bought 4 toys. Each toy costs ₹72. How much did he spend on buying toys?

Answer: $72 \times 4 =$ ₹288

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Concrete Stage

Use 'Dienes Blocks', and find five common multiples of the given numbers.

Numbers	5 common multiples				
2 and 3	6	12	18	24	30
5 and 10	10	20	30	40	50

Pictorial Stage

1. Study the number line, and find the common multiples of 4 and 5.

The common multiples of 4 and 5 are 20, 40.

The least common multiple (LCM) of 4 and 5 is 20.

2. Study the table, and answer the questions given below.

6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70

a. List all the multiples of 6 that lie between 30 and 50.

36 42 48

b. Write the 8th multiple of 7. 56

c. 42 is the least common multiple of 6 and 7.

Abstract Stage

1. Tick (✓) the correct common multiples of the given set of numbers.

a	2 and 3	i. 41	☐	ii. 24	✓	iii. 15	☐	iv. 51	☐
b	4 and 6	i. 10	☐	ii. 26	☐	iii. 12	✓	iv. 61	☐
c	5 and 10	i. 15	☐	ii. 10	✓	iii. 61	☐	iv. 34	☐
d	8 and 9	i. 83	☐	ii. 38	☐	iii. 84	☐	iv. 72	✓

2. Circle the common multiples of 4 and 12, and highlight the least common multiple of 4 and 12.

4	8	12	16	20	24	28	32	36	40
12	24	36	48	60	72	84	96	108	120

3. Tick (✓) the correct statements.

a. 12 is a common multiple of 5 and 7. ✗

b. 30 is the least common multiple of 3 and 10. ✓

Worksheet

T.B. Pg no. 132

Concrete Stage

1. Use 'Dienes Blocks' to make different arrays, and find all the factors of the given numbers.

a. 24 = 1, 2, 3, 4, 6, 8, 12, 24

b. 84 = 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

c. 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

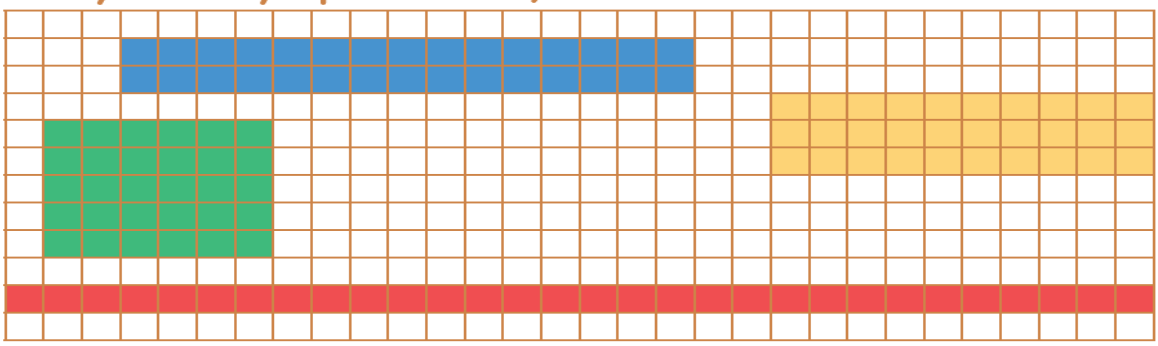
2. Find the common factors of the following numbers.

a. 6 and 18 = 1, 2, 3, 6

b. 56 and 72 = 1, 2, 4, 8

Pictorial Stage

1 **Study the array representation, and find the factors of 30.**



So, the factors of 30 are 2, 15, 5, 6, 3, 10, 30.

2 **Study the table, and circle the following numbers that have 6 as factors.**

6	12	18	24	30	36	42	48	54	60	66

36, 65, 42, 28, 54, 15

Abstract Stage

1 **Find out all the factors of 39.**
Answer: 1, 3, 13, 39

2 **Some factors of 81 are 1 and 81. What are the other factors of 81?**
Answer: 1, 3, 9, 27, 81

3 **The common factors of 64 and 72 are 1, 2, and 8. One factor is missing in this list. What is the missing common factor of 64 and 72?**
Answer: 4

T.B. Pg no. 133

Concrete Stage

Use 'Counters' to fill the missing digits that will make each statement true.

a 9 0 is divisible by 2 and 10. b 7 5 is divisible by both 3 and 5.

Pictorial Stage

1 **Observe the counter representation, draw more counters, and complete the statement.**

10 10 1 1

a I am a 2-digit number divisible by both 5 and 7. Answer: 35

b 45 is the number that is divisible by both 5 and 9.

2 **Ali has 78 balls with him. He says that he can group them into groups of 3 without leaving any remainder. Explain this using divisibility rule.**

Answer: The result is a whole number, which means that 78 is divisible by 3 without leaving any remainder. Therefore, Ali's claim is valid, and he can indeed group the 78 balls into groups of 3.

Abstract Stage

1. If the number 5* is completely divisible by 9, then circle the smallest whole number that will come in the place of *.

   (4) 3 6 7

2. List the numbers between 40 and 70 that are divisible by both 2 and 10.

   10, 20, 30, 40, 50, 60, 70

Blooming Questions

1. What is the difference between 8th multiple of 7 and 4th multiple of 8?

   56 – 32 = 24

2. Which of the following is not a factor of 42?

   a) 2 b) 3 c) (4) d) 6

3. Which of the following are the common multiples of 6 and 9?

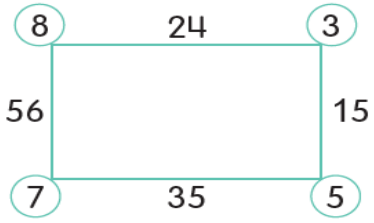
   a) 12 and 24 b) (18 and 36) c) 24 and 48 d) 27 and 54

4. Find the prime factors of the following numbers.

   a) 36 = 2 × 2 × 3 × 3
   b) 63 = 3 × 3 × 7
   c) 54 = 2 × 3 × 3 × 3
   d) 100 = 2 × 2 × 5 × 5

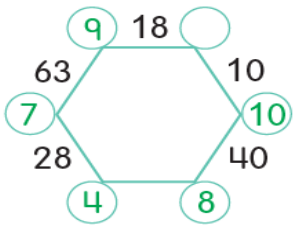
5. Use the factors and multiples to solve the puzzles. One has been done for you.

a)



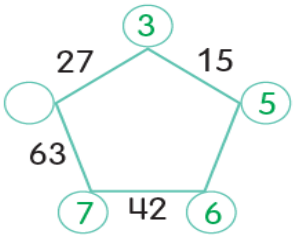
i. The common factor of 15 and 24 is 3.
ii. 8 is the common factor of 24 and 56.
iii. 7 is the common factor of 35 and 56.

b)



i. The common factor of 10 and 40 is 10.
ii. 9 is the common factor of 18 and 63.
iii. The multiple of 8 and 4 is 40.
iv. The common factor of 28 and 63 is 7.

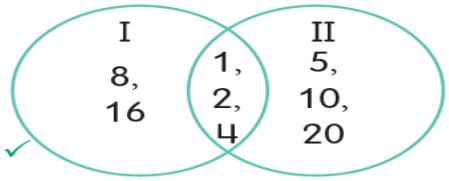
c)



i. The common factor of 15 and 27 is 3.
ii. The common multiple of 5 and 6 is 30.
iii. 7 is the common factor of 42 and 63.

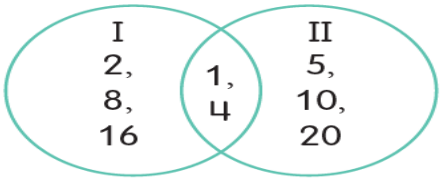
6 **All the factors of 16 are written in Circle I and all the factors of 20 in Circle II. Which Venn diagram shows it correctly?**

a



✓

b



7 **Use the following digit cards to form the numbers as given below. Use each card only once.**

a The largest number divisible by 2 is 6430.

b The largest number divisible by 3 is 63.

c The largest number divisible by 5 and 10 is 60.

8 **Nathan has 93 books. Can he make sets of 3 books each, without leaving any book? Explain.** Answer: Yes

9 **Using the divisibility rules, check whether the numbers are divisible by the given numbers or not. Put a tick (✓) or a cross (×).**

Divisible by

Number	2	3	4	5	6	9	10
28	✓		✓				
136	✓		✓				
56	✓		✓				
281							
95				✓			
700	✓		✓	✓			✓
999		✓				✓	

Post Activity: - Find two factors of 24 whose sum is 18**.**

Subject Teacher **HOD** **COORDINATOR** **PRINCIPAL**