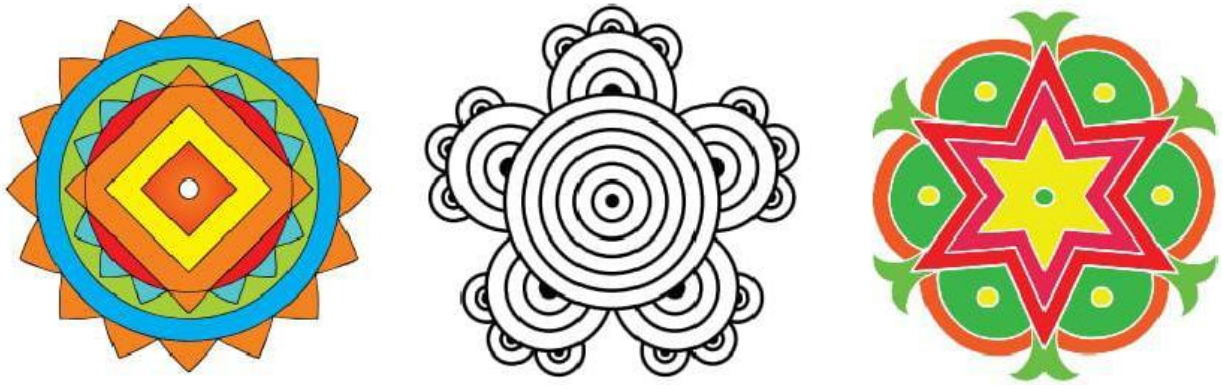
TODAY'S TOPIC

PATTERNS

3.1 Iterative patterns and processes

Introduction

Rangoli is created by the growing patterns of colours and shapes. These are few rangolis exhibiting such patterns.



PATTERNS OBTAINED BY ADDING NUMBERS

addition fact of 0	addition fact of 10									
0 + 0 = 0	0 + 10 = 10	1 + 9 = 10	2 + 8 = 10	3 + 7 = 10	4 + 6 = 10	5 + 5 = 10	6 + 4 = 10	7 + 3 = 10	8 + 2 = 10	9 + 1 = 10	10 + 0 = 10

addition fact of 1		addition fact of 11									
0 + 1 = 1	1 + 0 = 1	1 + 10 = 11	2 + 9 = 11	3 + 8 = 11	4 + 7 = 11	5 + 6 = 11	6 + 5 = 11	7 + 4 = 11	8 + 3 = 11	9 + 2 = 11	10 + 1 = 11

Find out the missing numbers and write them in the given blank.

23 + 3**7** = 60	74 + 5**6** = 130	45 + 1**6** = 61	12 + **9**3 = 105	25 + **9**3 = 118

PATTERNS IN REPEATED ADDITION

'Multiplication' refers to 'repeated addition'.

Z6L2S2

Example

Pictorial representation					
Repeated addition statement	3	3 + 3	3 + 3 + 3	3 + 3 + 3 +3	3 + 3 + 3 +3 + 3
Multiplication fact	1 × 3 = 3	2 × 3 = 6	3 × 3 = 9	4 × 3 = 12	5 × 3 = 15

3.4 Division as repeated subtraction

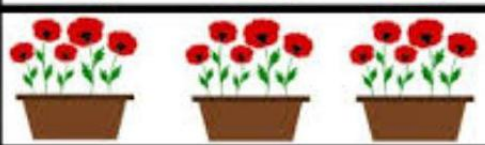
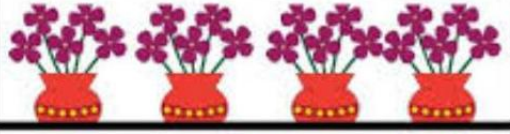
'Division' refers to 'repeated subtraction'.

Example 20 ÷ 4

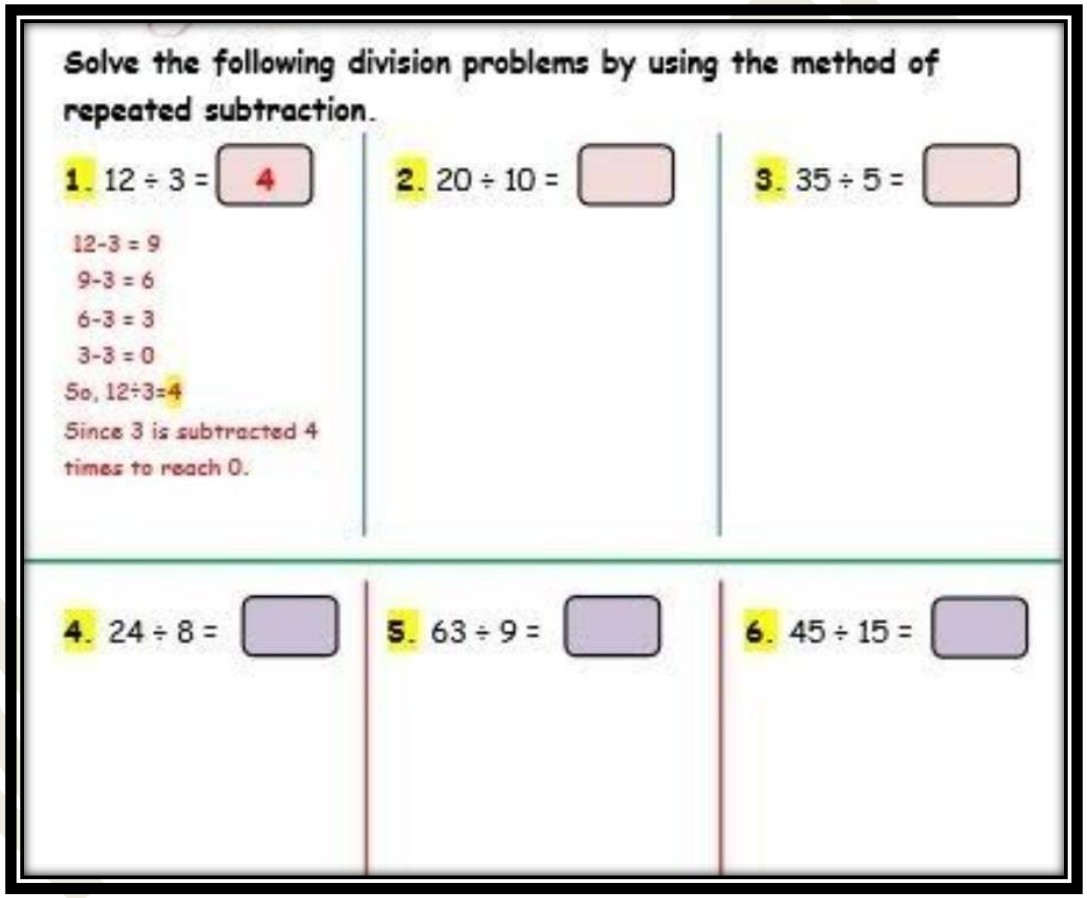
Step: 1		20 – 4 = 16
Step: 2		16 – 4 = 12
Step: 3		12 – 4 = 8
Step: 4		8 – 4 = 4
Step: 5		4 – 4 = 0

Activity 1:

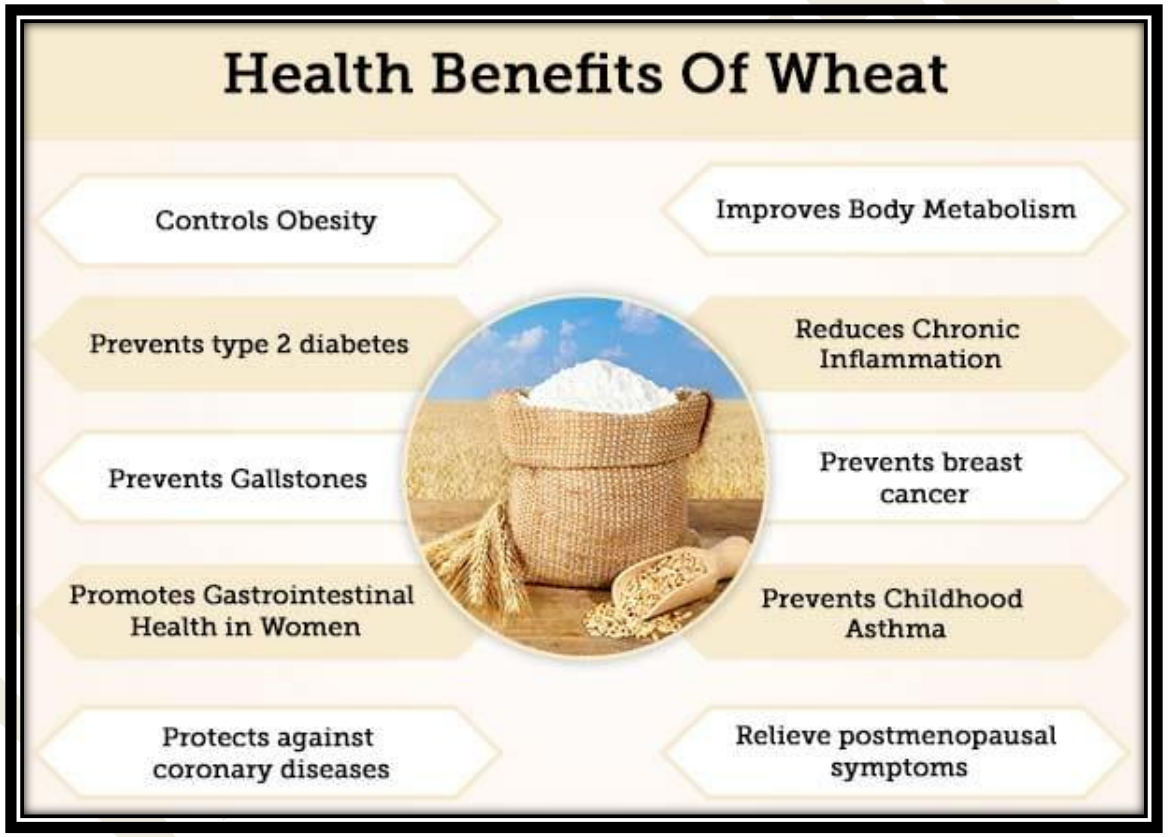
Fill in the blanks with repeated addition & multiplication

1.		3 + 3 + 3 = 9 3 X 3 = 9
2.		
3.		
4.		
5.		
6.		

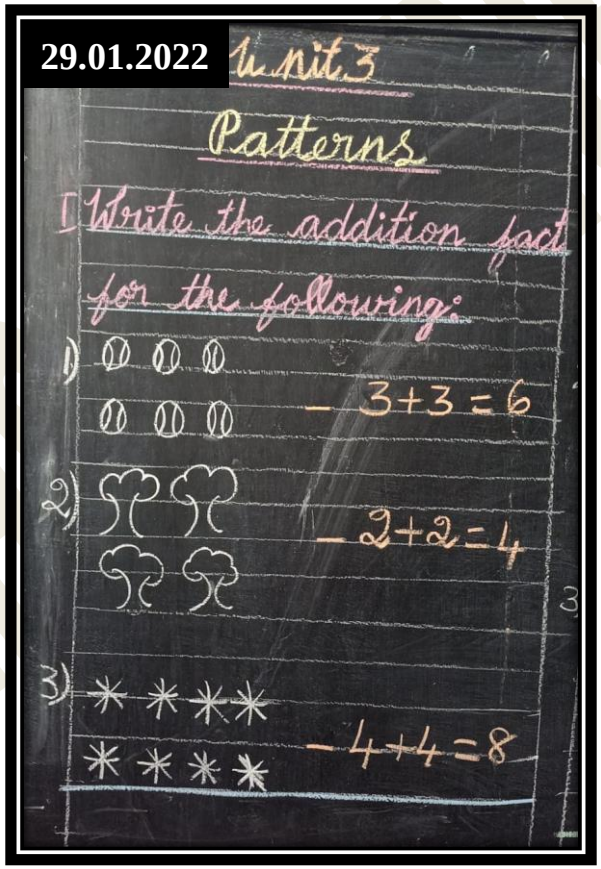
Activity 2:

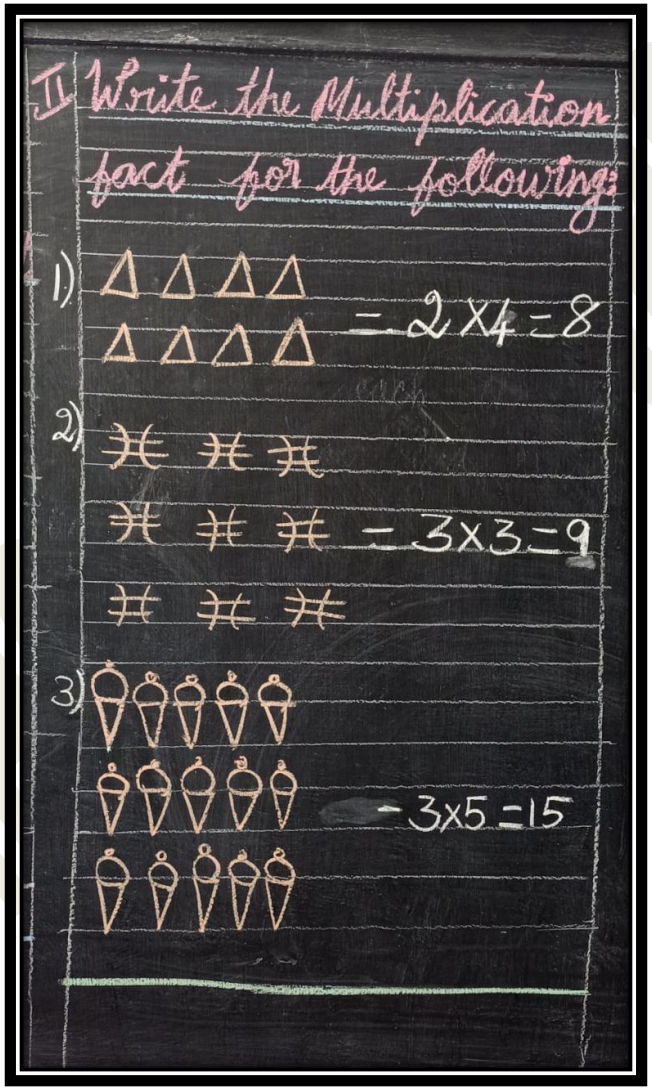

Solve the following division problems by using the method of repeated subtraction.
1. 12 ÷ 3 = 4
12-3 = 9
9-3 = 6
6-3 = 3
3-3 = 0
So, 12÷3=4
Since 3 is subtracted 4 times to reach 0.
2. 20 ÷ 10 =
3. 35 ÷ 5 =
4. 24 ÷ 8 =
5. 63 ÷ 9 =
6. 45 ÷ 15 =

Health Tips:


Health Benefits Of Wheat
Controls Obesity
Improves Body Metabolism
Prevents type 2 diabetes
Reduces Chronic Inflammation
Prevents Gallstones
Prevents breast cancer
Promotes Gastrointestinal Health in Women
Prevents Childhood Asthma
Protects against coronary diseases
Relieve postmenopausal symptoms

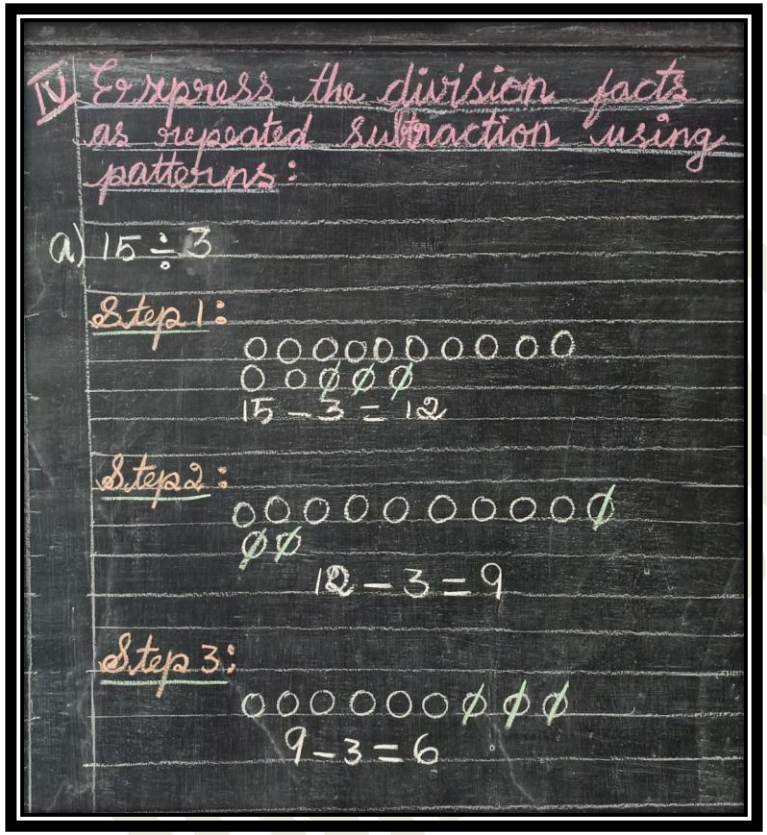
Today (29.01.2022) we are going to write the MATHS class work.
Students write neatly. Use pen for writing.

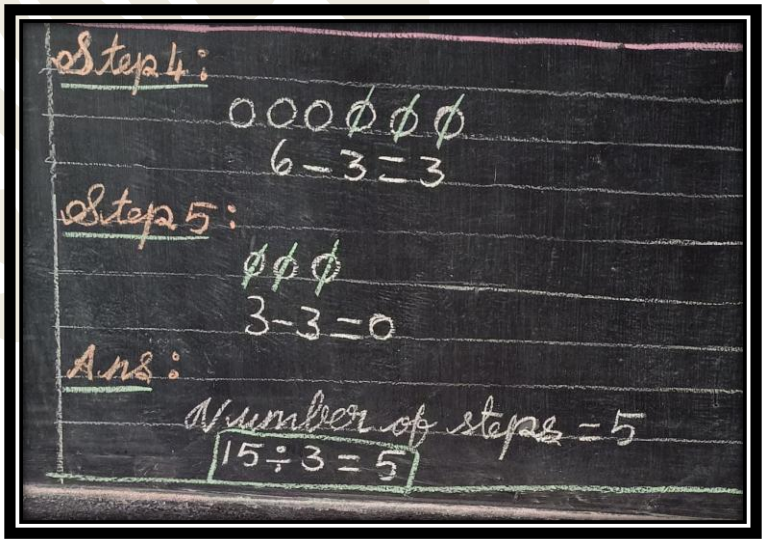


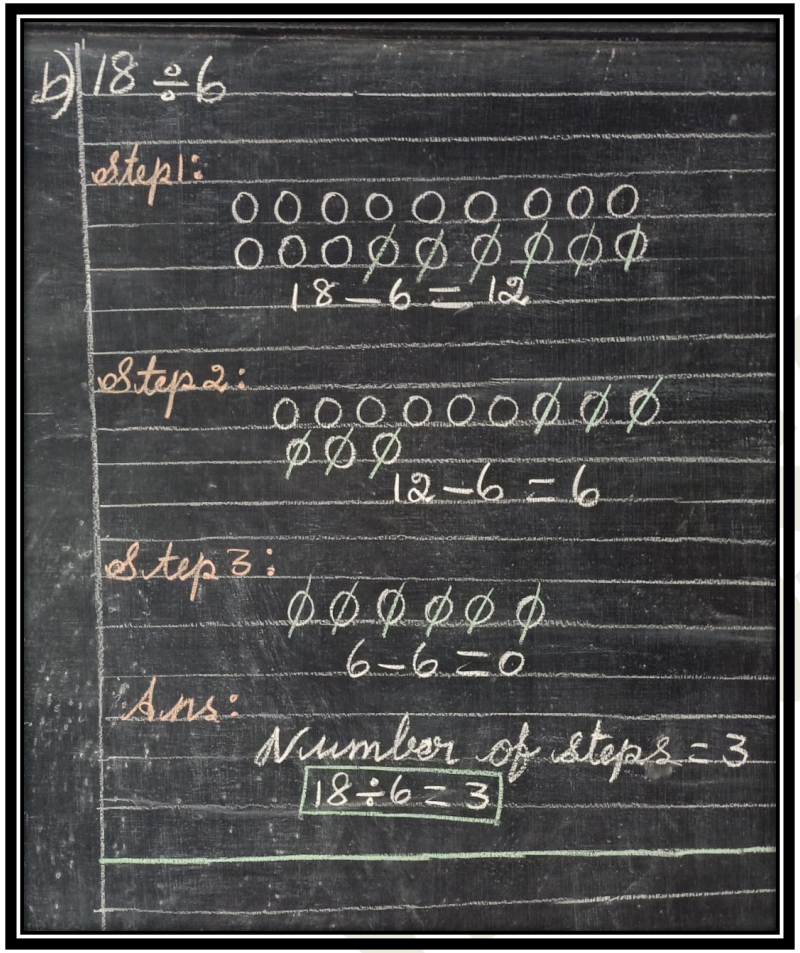

II Write the Multiplication fact for the following:
1)
= 2 X 4 = 8
2)
= 3 X 3 = 9
3)
= 3 X 5 = 15

III Match the following:

1) Multiplication – Repeated addition
2) Division – Repeated Subtraction
3) 6 × 8 – 48
4) 7+7+7+7 – 28
5) 12-4-4-4 – 4


IV Express the division facts as repeated subtraction using patterns:
a) 15 ÷ 3
Step 1:
15 − 3 = 12
Step 2:
12 − 3 = 9
Step 3:
9 − 3 = 6


Step 4:
6 − 3 = 3
Step 5:
3 − 3 = 0
Ans:
Number of steps = 5
15 ÷ 3 = 5


b) 18 ÷ 6
step1:
18 − 6 = 12
step2:
12 − 6 = 6
step3:
6 − 6 = 0
Ans:
Number of steps = 3
18 ÷ 6 = 3

THANK YOU!