

Class	VIII	Subject	Mathematics	Plan	
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Period	1	Chapter:5	Playing with Numbers
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Sub-Concept	Introduction, Generalized form of numbers (two - digit and three - digit numbers)
Teaching Aids to be used	Audio-Visual Aids with CCRE

Learning outcomes	➤ Students will be able to know about generalized form of numbers (two - digit and three - digit numbers)
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SLNO	Step Wise (What to be done)
1. Introduction	➤ Brief introduction about generalized form of numbers (two - digit and three - digit numbers)
2.Pre	Generalized form of numbers (two - digit and three - digit numbers) https://www.youtube.com/watch?v=jq0eLNwJOTM(3:54)
3.Evl	Evaluation Questions Ex 5A –2
4.HW	Ex 5(A) -Q no- 4 and AHA as follows
5.AQ	<p>1. What is the original number, if the sum of the digits of a two-digit number is seven. By interchanging the digits is twenty seven more than the original number?</p> <p>2. In a two-digit number, the digit in the units place is four times the digit in the tens place and sum of the digits is equal to 10. What is the number?</p>

**CCRE- common class room equipment

**AHA- Additional Home Assignments (to be given to toppers)

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Period	2	Chapter:5	Playing with Numbers
Sub-Concept		Some interesting properties of numbers	
Teaching Aids to be used		Audio-Visual Aids with CCRE	
Learning outcomes	➤ Students will be able to know about some interesting properties of numbers		

SLNO	Step Wise (What to be done)
1.Int	Some interesting properties of numbers
2.Pre	Show that $527 + 752 + 275$ is exactly divisible by 14..
	If $a = 6$, show that $abc = bac$.
	If $a > c$; show that $abc - cba = 99(a - c)$.
3.Evl	Evaluation Question: Ex. 5(B) Q. No. 6
4.HW	Ex 5(A) - 5 to 9 and AHA as follows
5.AQ	1. Express 3458 in a generalized form.
	2. The number 1220 is divided by 13, find the quotient and remainder.
	3. What is the least natural number which is larger than 100 and which leaves the remainder, $R = 12$ when it is divided by 19.

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Period	3	Chapter:5	Playing with Numbers
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Sub-Concept	Letters for digits (Cryptarithms)
Teaching Aids to be used	Audio-Visual Aids with CCRE

Learning outcomes	➤ Cryptarithm sharpens the ability to find solutions to problems.
SLNO	Step Wise (What to be done)
1.int	Letters for digits (Cryptarithms) https://www.youtube.com/watch?v=rkrMidInh0w(2:16)
2.Pre	Discuss Exercise 5(B) Q. No. 1,6 $\begin{array}{r} 2AB \\ +AB1 \\ \hline B18 \end{array}$ Find A and B. $\begin{array}{r} AB \\ \times 3 \\ \hline CAB \end{array}$
3.Evl	Evaluation Question Exercise 5(B) Q. No. 2
4.HW	Ex 5(B)
5.AQ	<div style="display: flex; align-items: center;"> <div style="border-right: 2px solid black; padding-right: 10px; margin-right: 10px;"> $\begin{array}{r} A \quad B \\ \times \quad 6 \\ \hline C \quad 6 \quad 8 \end{array}$ </div> <div style="border-right: 2px solid black; padding-right: 10px; margin-right: 10px;">1.</div> </div> <div style="display: flex; align-items: center;"> <div style="border-right: 2px solid black; padding-right: 10px; margin-right: 10px;"> $\begin{array}{r} A \quad A \\ \times \quad A \\ \hline C \quad A \quad B \end{array}$ </div> <div style="border-right: 2px solid black; padding-right: 10px; margin-right: 10px;">2.</div> <div> $and B - A = 1$ </div> </div>

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Class	VIII	Subject	Mathematics	Plan for	
Period	4	Chapter:5	Playing with Numbers		
Sub-Concept		Tests of divisibility			
Teaching Aids to be used		Audio-Visual Aids with CCRE			
Learning outcomes	➤ Students will be able to understand the tests of divisibility tests of divisibility				
SLNO	Step Wise (What to be done)				
1.int	Tests of divisibility https://www.youtube.com/watch?v=2WzcnnrTD3E(3:03)				
2.Pre	Discuss Exercise 5(C) Q. No. 1 bit (iv) , Q No. 2 bit (iv)				
3.Evl	Evaluation Question Ex. 5(C) Q. No. 2 bit (ii) and (iii)				
4.HW	Ex 5(C)				
5.AQ	1. A three-digits number 203 is added to the number 326 to give a three-digits number 5b9 Which is divisible by 9. Find the value of b – a.				
	2. Find the value of k, where 31K2 is divisible by 6.				

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Class	VIII	Subject	Mathematics	Plan for	
Period	5	Chapter:5	Playing with Numbers		
Sub-Concept		Problem solving on the above concept			
Teaching Aids to be used		Audio-Visual Aids with CCRE			
Learning outcomes		➤ Students will be able to solve the possible values of letters related to tests of divisibility of numbers.			
SLNO	Step Wise (What to be done)				
1.int	Problem solving on the above concept				
2.Pre	Discuss Exercise 5(D) Q. No. 1,3,5				
3.Evl	Evaluation Question Ex. 5(D) Q. No. 2				
4.HW	Exercise 5(D)				
5.AQ	1. If 148101B095 is divisible by 33, find the value of B.				
	2. If 123123A4 is divisible by 11, find the value of A.				

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Class	VIII	Subject	Mathematics	Plan for	
Period	6	Chapter:5	Playing with Numbers		

Sub-Concept	Recapitulation of the Chapter
Teaching Aids to be used	Audio-Visual Aids with CCRE

Learning outcomes	<ul style="list-style-type: none"> ➤ Students will be able to know about generalized form of numbers (two - digit and three - digit numbers) ➤ Students will be able to know about some interesting properties of numbers ➤ Cryptarithm sharpens the ability to find solutions to problems ➤ Students will be able to understand the tests of divisibility
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SLNO	Step Wise (What to be done)
Simultaneous interaction and presentation in one go	<p>They will be asked to solve problems based on Squares and Square-roots.</p> <p>They will be asked to find the square root of a perfect square using division method.</p> <p>They will be asked to find the square root of a number which is not a perfect square using division method.</p> <p>Necessary feedback is to be given at the end with presentation skill.</p> <p>Study note may be presented at the end with collection of HW.</p> <ul style="list-style-type: none"> ● If 148101B095 is divisible by 33, find the value of B. ● Find the value of k, where 31K2 is divisible by 6.