



LEARNING BY DOING

Builds Scientific Temper In Children

SCIENCE PROJECT BOOK



Can you add and subtract
Double digit numbers?

DOUBLE DIGIT 012 ADDITION & SUBTRACTION

100	99	98	97	96
91	92	93	94	95
90	89	88	87	86
85	84	83	82	81
76	77	78	79	80

SCAN TO WATCH
INSTRUCTION VIDEO



NAME:

ROLL NO.:

CLASS:



DOUBLE DIGIT ADDITION & SUBTRACTION

Components to do activities



Table of Contents

	Type	Time	Page No
1 Representing double digit numbers		5 min	1
2 Double digit addition		20 min	2
3 Double digit subtraction		20 min	3
3 Snakes & ladders		20 min	4
4 Self assessment		5 min.	5
Total time		70 min.	



Information



Activity / Game



Self assessment

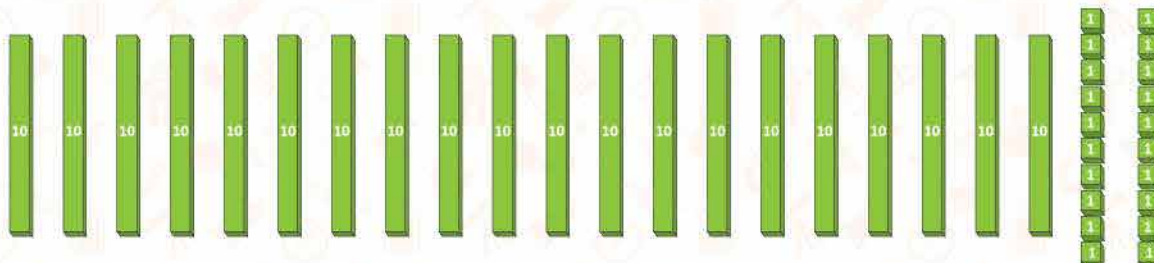


DOUBLE DIGIT ADDITION & SUBTRACTION



Activity 1 : Representing double digit numbers

Material



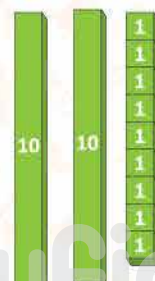
Representation

Example: 46



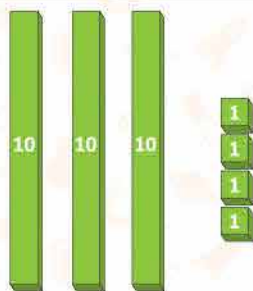
$$10+10+10+10+6 = 46$$

Example: 29



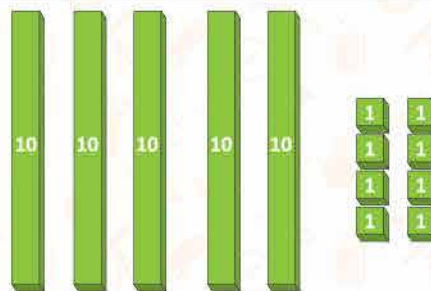
$$10+10+9 = 29$$

Observation



I have _____ tens and _____ ones

My number is _____



I have _____ tens and _____ ones

My number is _____



I have _____ tens and _____ ones

My number is _____



I have _____ tens and _____ ones

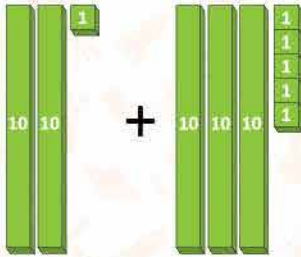
My number is _____



Activity 2 : Double digit addition

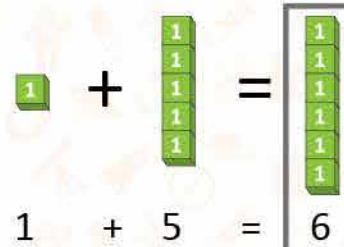
Double digit addition (Example: $21 + 35$)

① $21 + 35$

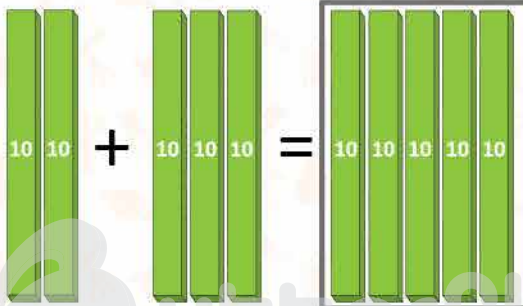


Step 1: Represent the two numbers as shown

② Step 2: Add numbers in Units Place

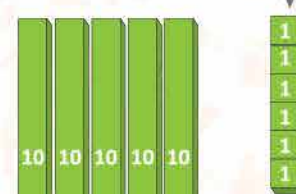


③ $20 + 30 = 50$



Step 3: Add numbers in tens Place

④

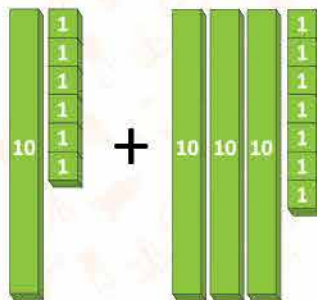


$21 + 35 = 56$

Step 4: Combine both together

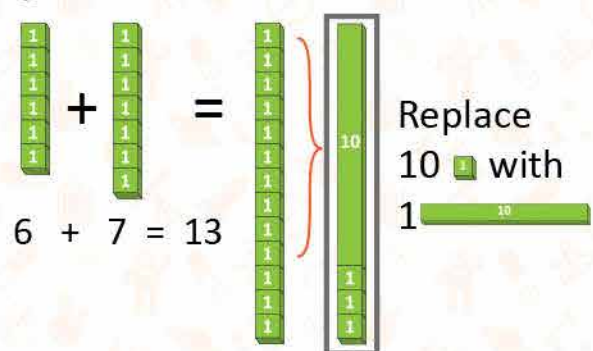
Double digit addition (with carry) - Example: $16 + 37$

① $16 + 37$

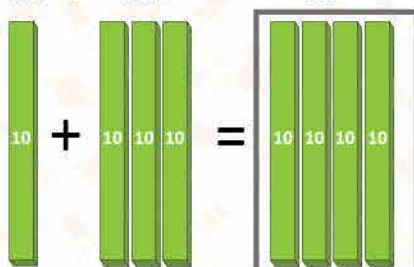


Step 1: Represent the two numbers as shown

② Step 2: Add numbers in Units Place

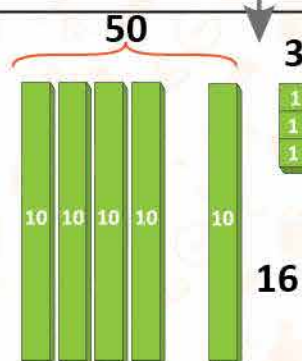


③ $10 + 30 = 40$



Step 3: Add numbers in tens Place

④



$16 + 37 = 53$

Step 4: Combine both together



Activity 3 : Double digit subtraction

Double digit subtraction - Example: $37 - 13$

① $37 - 13$

② Step 2: Subtract numbers in Units Place

$$7 - 3 = 4$$

③ $30 - 10 = 20$

Step 3: Subtract numbers in tens Place

④ $20 + 4 = 24$

$37 - 13 = 24$

Step 4: Combine both together

Double digit subtraction (with borrow) - Example: $32 - 16$

① $32 - 16$

Step 1: Put both numbers as shown

② Step 2: Subtract numbers in Units Place
(As 6 can not be subtracted from 2)

Replace 1 $\overline{10}$ with 10 $\overline{1}$

$$12 - 6 = 6$$

③ $20 - 10 = 10$

Step 3: Subtract numbers in tens Place

④ $10 + 6 = 16$

$32 - 16 = 16$

Step 4: Combine both together

**Q . Add the numbers below**

1. $26 + 36 =$ _____
2. $13 + 19 =$ _____
3. $32 + 62 =$ _____
4. $59 + 10 =$ _____
5. $12 + 69 =$ _____

Q . Subtract the numbers below

1. $36 - 16 =$ _____
2. $19 - 19 =$ _____
3. $52 - 35 =$ _____
4. $13 - 09 =$ _____
5. $66 - 39 =$ _____

**Activity 4: Snakes & ladders****Addition & subtraction of numbers below 100****Game contents**

Game Board



4 coins



Die

How to play

All players should keep their coins on the "Start" position

Player-1

Result = 3



Player-1 moves 3 steps as shown

Now

Player-2

Turn



Result = 2



Player-2 moves 2 steps as shown



Player-2 lands on the block "2" which has a problem to solve.
Player has to move 7 more steps ($2 + 7 = 9$)

The player who reaches 100 first wins the game



After each round, note down your move in the observation table

Sample observation table for Player-2

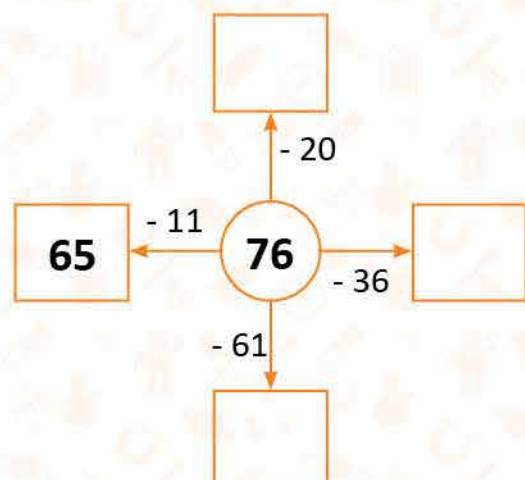
Round No	Number on die	I landed on	Final postion
1	2	2	$2 + 7 = 9$
2	2	$9 + 2 = 11$	$11 - 4 = 7$

Round No	Number on die	I landed on	Final postion
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

? Self assessment (10 marks)

1. Add the numbers to fill the grid. (6 marks)
2. Subtract the numbers to fill the boxes. (4 marks)

	+11	+21	+19	+7	+10
17	28	38	36	24	27
52		73			
10			29		
29				36	
20					30



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- Double digit addition & subtraction - Solve **double digit addition & subtraction of numbers** • Place value (4 digit numbers) - Represent **4 digit numbers in expanded form** & compare • Volume estimation - **Measure, estimate & compare volume of containers** • Different shapes - Classify **different shapes by the no. of points & the joining lines** • Time division - Make a **clock & learn to tell time in 12-hour & 24-hour formats** • Introduction to basic operations - Add & subtract 3-digit **numbers, learn multiplication tables & division by grouping** • Understanding fractions - Use fraction strips to **understand & compare fractions** • Making a stamp - Use mirror to **identify symmetry in shapes, make stamp & stamp pad** to make different symmetric patterns

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