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India's Number 1 Education App

## MATHS

## BOOKS - SWAN PUBLICATION

## PLAYING WITH NUMBERS

## Try These

1. Write the following numbers in generalised
form:

25
2. Write the following numbers in generalised form:

73

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3. Write the following numbers in generalised

## form:

129

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4. Write the following numbers in generalised form:
5. 

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5. Write the following in the usual form:
$10 \times 5+6$.

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6. Write the following in the usual form:
$100 \times 7+10 \times 1+8$.

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7. Write the following in the usual form:
$100 \times a+10 \times c+b$.
(D) Watch Video Solution
8. Check what the result would have been if

Sundaram had chosen the numbers shown
below.

27

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9. Check what the result would have been if

Sundaram had chosen the numbers shown below.

39
10. Check what the result would have been if

Sundaram had chosen the numbers shown below.

64

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11. Check what the result would have been if

Sundaram had chosen the numbers shown
below.

17

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12. Check what the result would have been if

Sundaram had chosen the numbers shown
below.

17

- Watch Video Solution

13. Check what the result would have been if

Sundarm had chosen the numbers shown
below.

21

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14. Check what the result would have been if

Sundarm had chosen the numbers shown below. 96
15. Check what the result would have been if Sundarm had chosen the numbers shown below. 37

D Watch Video Solution
16. Check what the result would have been if

Minakshi had chosen the numbers shown
below.

132

## D Watch Video Solution

17. Check what the result would have been fi

Minakshi had chosen the numbers shown
below.

469
18. Check what the result would have been fi

Minakshi had chosen the numbers shown
below.

737

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19. Check what the result would have been fi

Minakshi had chosen the numbers shown below.

901
20. Check what the result would have been fi Sundaram had chosen the numbers shown below.

417

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21. Check what the result would have been if

Sundaram had chosen the numbers shown
below.

632

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22. Check what the result would have been fi

Sundaram had chosen the numbers shown
below.

117
23. Check what the result would have been fi

Sundaram had chosen the numbers shown
below.

937

## D Watch Video Solution

24. If the division $N \div 5$ leaves a remainder of

3 ,what might be the ones digit of $N$ ?

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25. If the division $N \div 5$ leaves a remainder of 4 ,what might be the ones digit of $N$ ?

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26. If the division $N \div 2$ leaves a remainder of

1, what might be the one's digit of $N$ ?

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27. If the division $N \div 2$ leaves a remainder of 1 ,what might be the one's digit of N ?

## - Watch Video Solution

28. If the division $N \div 5$ leaves a remainder of

1 , what might be the ones digit of N ?

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29. Check the divisibility of the following numbrs by 9 .

108

## D Watch Video Solution

30. Check the divisibility of the following numbrs by 9 .

616

D Watch Video Solution
31. Check the divisibility of the following number by 6.

294

- Watch Video Solution

32. Check the divisibility of the following numbrs by 9.

432
33. Check the divisibility of the following numbrs by 9 . 927

## D Watch Video Solution

34. Check the divisibility of the following number by3.

108

D Watch Video Solution
35. Check the divisibility of the following numbrs by 9.

616

## D Watch Video Solution

36. Check the divisibility of the following number by3.

294
37. Check the divisibility of the following number by3.

432

- Watch Video Solution

38. Check the divisibility of the following number by3.

927

1. Write a 2-digit number ab and the number obtained by reversing its digits i.e., ba. Find their sum. Let the sum be a 3 -digit number dad i.e, $a b+b a=d a d$
$(10 a+b)+(10 b+a)=d a d$
$11(a+b)=d a d$
The sum $\mathrm{a}+\mathrm{b}$ can not exceed 18 (Why?)
Is dad a multiple of 11 ?
Is dad less than 198 ?
Write all the 3 -digit numbers which are
multiples of 11 upto 198 . Find the value of a and d.

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## Think Dicuss And Write

1. You have seen that a number 450 is divisible by 10 .lt is also divisible by 2 and 5 which are factors of 10.Similarly,a number 135 is divisible by 9.It is also divisible by 3 which is a factor of 9.

Can you say that if a number is divisible by any number $m$,then it will also be divisible by each of the factors of $m$ ?

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2. Write a 3-digit bnumber abc as 100a+10b+c
$=99 a+11 b+(a-b+c)=11(9 a+b)+(a-b+c)$

If the number abc is divisible by 11 ,then what can yu say about ( $a-b+c$ )?

Is it necessary tht ( $a+c-b$ ) should be divisible by 11 ?
3. Write a 4-digit number abcd as
$1000 a+100 b+10 c+d=(1001 a+99 b+c)-(a-b+c-d) I f$
the number abcd is divisible by 11,then what can you say about [(b+d)-(a+c)]?.

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4. From(i) and (ii) above,can you say that a number will be divisible by 11 if thedifference between the sum of digits at its odd places
and that of digits a the even places is divisible by 11 ?.

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## Exercise 1

1. Find the values of the lettters in each of the following and give reasons for the steps
involved.


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2. Find the values of the letters in each of the
following and give reasons for the steps
involved.
4 A
$+\underline{98}$
CB2

- Watch Video Solution

3. Find the values of the lettters in each of the following and give reasons for the steps
involved.


- Watch Video Solution

4. Find the values of the letters in each of the following and give reasons for the steps involved.

## - Watch Video Solution

5. Find the values of the letters in each of the
following and give reasons for the steps involved.
6. Find the values of the letters in each of the following and give reasons for the steps involved.

- Watch Video Solution

7. Find the values of the letters in each of the following and give reasons for the steps
involved.

- Watch Video Solution

8. Find the values of the letters in each of the
following and give reasons for the steps
involved.

- Watch Video Solution

9. Find the values of the letters in each of the
following and give reasons for the steps involved.

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10. Find the values of the letters in each of the
following and give reasons for the steps involved.

Exercise 2

1. If $21 y 5$ is a multiple of 3 ,where, $y$ is $a$ digit, what is the value of $y$.

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2. If $31 z 5$ is a multiple of 3 , where, $z$ is $a$ digit,what might be the value of $z$.
3. If $24 x$ is a multiple of 3 , where: $x$ is $a$ digit,what is the value of $x$ ?

## D Watch Video Solution

4. If $31 z 5$ is a multiple of 3 ,where,$z$ is $a$ digit,what might be the value of $z$.
