

#### **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



**3.** Write the following numbers in generalised form:

129

**4.** Write the following numbers in generalised

form:

302.



5. Write the following in the usual form:

 $10 \times 5 + 6$ .



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:

$$100 \times a + 10 \times c + b$$
.



**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



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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



**13.** Check what the result would have been if Sundarm had chosen the numbers shown below.

21



**14.** Check what the result would have been if Sundarm had chosen the numbers shown below.

96



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

37



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**16.** Check what the result would have been if Minakshi had chosen the numbers shown

below.

132



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**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



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**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



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**24.** If the division  $N\div 5$  leaves a remainder of 3,what might be the ones digit of N?



**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 ?



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



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

1,what might be the ones digit of N?



**29.** Check the divisibility of the following numbers by 9.

108



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**30.** Check the divisibility of the following numbers by 9.

616



**31.** Check the divisibility of the following number by 6.

294



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

432



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



927

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34. Check the divisibility of the following number by3.

108



**35.** Check the divisibility of the following numbrs by 9.

616



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**36.** Check the divisibility of the following number by3.

294



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

432



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**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, ab+ba=dad

$$(10a + b) + (10b + a) = dad$$

$$11(a+b) = dad$$

The sum a+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 .It 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

=99a+11b+(a-b+c)=11(9a+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

1000a+100b+10c+d=(1001a+99b+c)-(a-b+c-d)If

the number abcd is divisible by 11,then what

can you say about [(b+d)-(a+c)]?.



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

and that of digits a the even places is divisible by 11?.

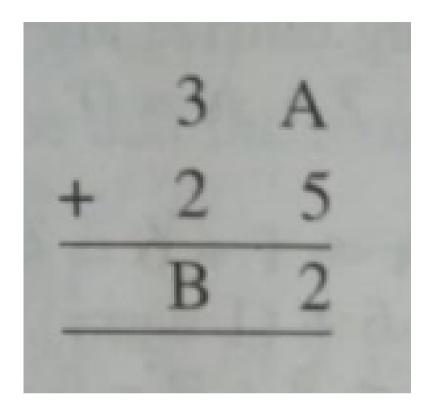


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# Exercise 1

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

involved.





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

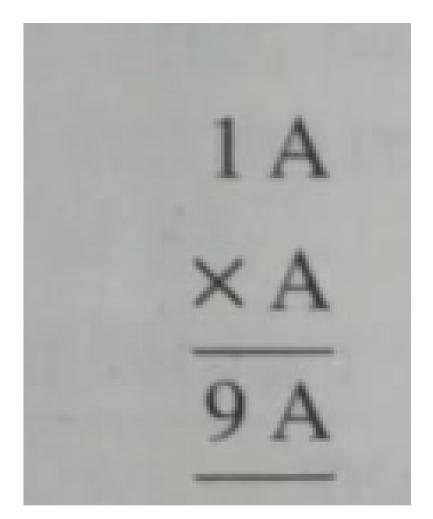
- involved.
  - 4 A
  - +98
    - CB2



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**3.** Find the values of the letters in each of the following and give reasons for the steps

involved.





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





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





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





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

involved.





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





**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 21y5 is a multiple of 3 ,where,y is a digit,what is the value of y.



**2.** If 31z5 is a multiple of 3,where , z is a digit,what might be the value of z.



**3.** If 24x is a multiple of 3,where:x is a digit,what is the value of x?



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**4.** If 31z5 is a multiple of 3,where , z is a digit,what might be the value of z.

