MATHS

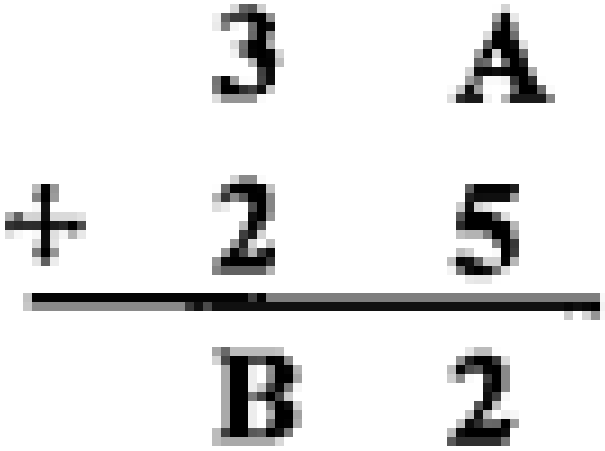
BOOKS - ASHOK PUBLICATION ASSAM

Playing with Numbers

Example

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

involved.



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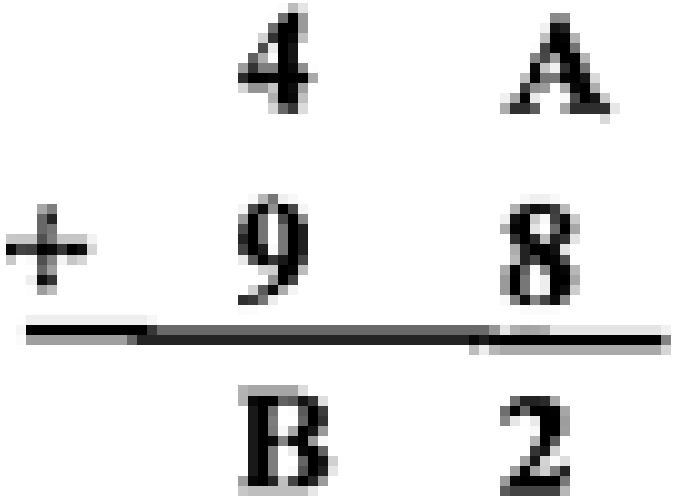
2. Find the values of the letters in each of the following and give reasons for the steps

involved.



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

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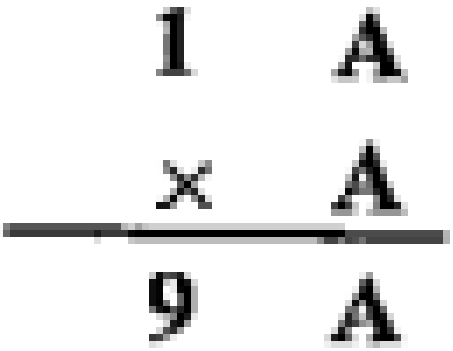

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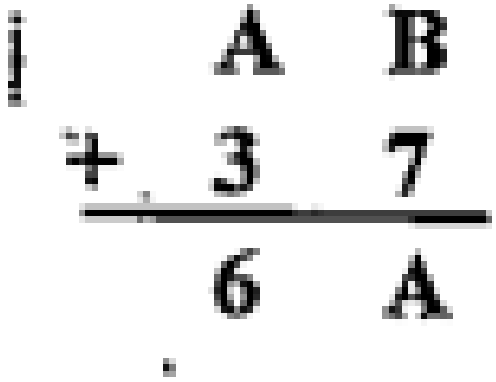
4. Find the values of the letters in each of the following and give reasons for the steps

involved.



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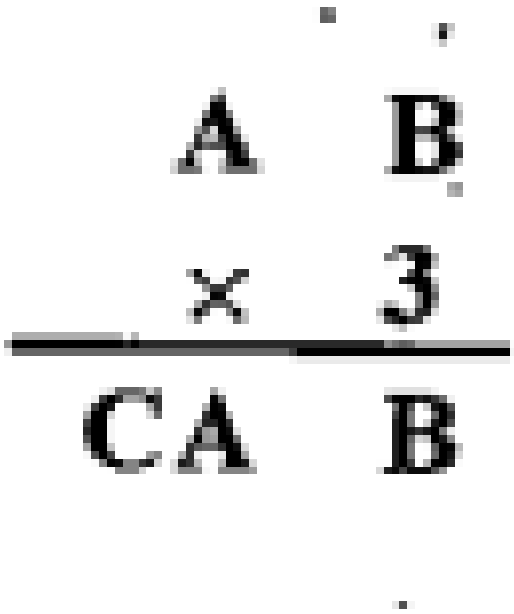
5. Find the values of the letters in each of the following and give reasons for the steps

involved.



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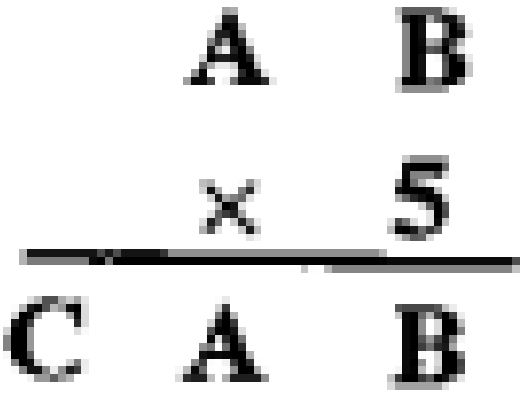
6. Find the values of the letters in each of the following and give reasons for the steps

involved.



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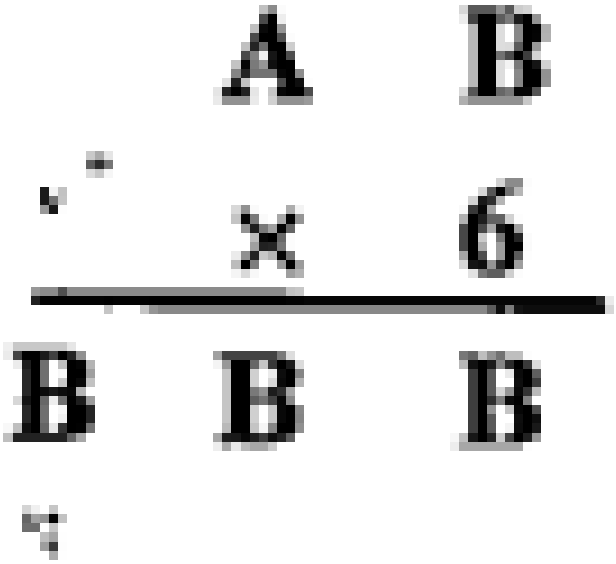
7. Find the values of the letters in each of the following and give reasons for the steps

involved.



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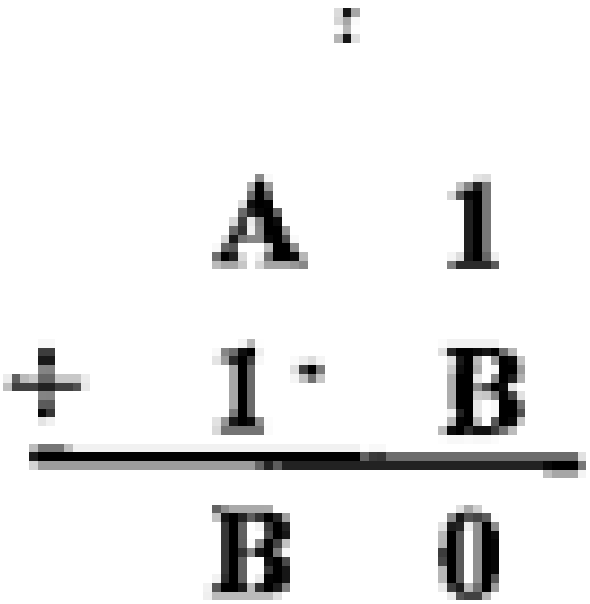
8. Find the values of the letters in each of the following and give reasons for the steps

involved.



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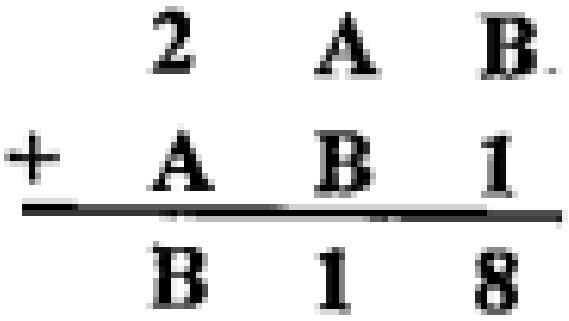
9. Find the values of the letters in each of the following and give reasons for the steps

involved.



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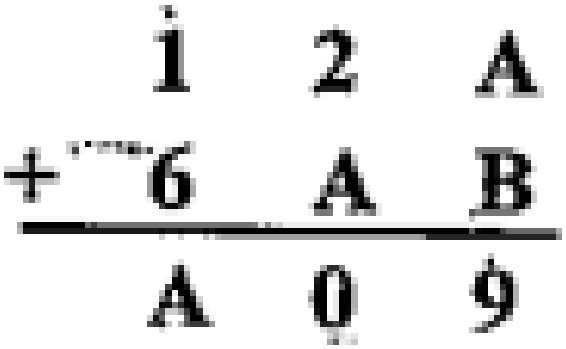
10. Find the values of the letters in each of the following and give reasons for the steps

involved.



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11. If 21y5 is a multiple of 9, where y is digit, what is the value of y?

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12. If 31z5 is a multiple of 9, where z is a digit, what is the value of z? You will find that there are two answers for the last problem. Why is this so?

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

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14. Write the following numbers in generalised form.

25

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15. Write the following numbers in generalised form.

73

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16. Write the following numbers in generalised form.

129

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17. Write the following numbers in generalised form.

302

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18. Write the following in the usual form.

$10 \times 5 + 6$

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19. Write the following in the usual form.

$100 \times 7 + 10 \times 1 + 8$

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20. Write the following in the usual form.

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

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21. Check what the result would have been of the sum of chosen number and the number with reversed digits, if Sundaram had chosen the number shown below.

27

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22. Check what the result would have been of the sum of chosen number and the number with reversed digits, if Sundaram had chosen the number shown below.

39

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23. Check what the result would have been of the sum of chosen number and the number with reversed digits, if Sundaram had chosen

the number shown below.

64

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24. Check what the result would have been of the sum of chosen number and the number with reversed digits, if Sundaram had chosen the number shown below.

17

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25. Check what the result would have been of the difference of chosen number and the number with reversed digits, if Sundaram had chosen the number shown below.

17

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26. Check what the result would have been of the difference of chosen number and the number with reversed digits, if Sundaram had

chosen the number shown below

21

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27. Check what the result would have been of the difference of chosen number and the number with reversed digits, if Sundaram had chosen the number shown below.

96

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28. Check what the result would have been of the difference of chosen number and the number with reversed digits, if Sundaram had chosen the number shown below.

37

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29. Check what the result have been if Minakshi had chosen then numbers shown below. In each case keep a record of the

quotient obtained at the end.

132

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30. Check what the result have been if Minakshi had chosen then numbers shown below. In each case keep a record of the quotient obtained at the end.

469

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31. Check what the result have been if Minakshi had chosen then numbers shown below. In each case keep a record of the quotient obtained at the end.

737

Watch Video Solution

32. Check what the result have been if Minakshi had chosen then numbers shown below. In each case keep a record of the

quotient obtained at the end.

901

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33. Check what the result would have been if Sundaram had chosen the numbers shown below.

417

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34. Check what the result would have been if Sunsaram had chosen the numbers shown below.

632

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35. Check what the result would have been if Sundaram had chosen the numbers shown below.

117

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36. Check what the result would have been if Sundaram had chosen the numbers shown below.

937

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37. 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 cannot 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 values of a and d.

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38. If the division $N \div 5$ leaves a remainder of 3, what might be the one's digit of N?

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39. If the division $N \div 5$ leaves a remainder of 1, what might be the one's digit of N?

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40. If the division $N \div 5$ leaves a remainder of 4, what might be the one's digit of N?

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

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42. If the division $N \div 2$ leaves no remainder (i.e, zero remainder), what might be the one's digit of N?

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43. Suppose that the division $N \div 5$ leaves a remainder of 4, and the division $N \div 2$ leaves a remaidner of 1. What must be the one's digit of N?

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44. Check the divisibility of the following numbers by 9.

108

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45. Check the divisibility of the following numbers by 9.

616

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46. Check the divisibility of the following numbers by 9.

294

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47. Check the divisibility of the following numbers by 9.

432

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48. Check the divisibility of the following numbers by 9.

927

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49. 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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50. Check the divisibility of the following numbers by 3.

108

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51. Check the divisibility of the following numbers by 3.

616

Watch Video Solution

52. Check the divisibility of the following numbers by 3.

294

Watch Video Solution

53. Check the divisibility of the following numbers by 3.

432

Watch Video Solution

54. Check the divisibility of the following numbers by 3.

927

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