

| **Multiplication of 2-digit no. by 11.**  When a two-digit number is multiplied by 11, take the sum of the digits of the number and place the sum between the two digits of the original two-digit number.  For example, when 11 is multiplied by 16, take the sum of 1 and 6, that is, 7.  Let’s take another example: Find the product of 11 x 25. At first write the first number which is 2, then add the digits of the number 2 and 7 which is 7, and then write the last number which is 5. So, the product will be 275. |
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| Now let’s take different example where carry over is there in the addition of the two digits.  Let’s take number 11 x 48. Start by putting the first number which is 4, Then add 4 and 8 which is 12. In the second position number will be 2 and the carryover will get added to the number in first position. Then write the last number which is 8. So, the product will be 11 x 48 = 528.  Let’s take number 11 x 83. Start by putting the first number which is 8, Then add 8 and 3 which is 11. In the second position number will be 1 and the carryover will get added to the number in first position. Then write the last number which is 3. So, the product will be 11 x 83 = 913. |

**Pictorial representation of the same is shown below:**

Graphical user interface, diagram

Description automatically generated

Using the same technique try finding the product of any 2-digit random numbers with 11.

**HAPPY LEARNING!!**