

The Adding Machine

FOR TEACHERS

Content: Making an adding machine.

Materials required: Card strips

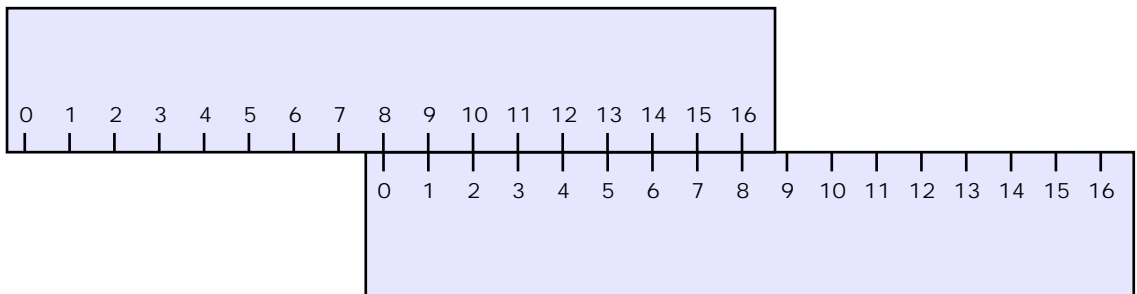
How to conduct: Teach them how and where to place the strips for adding.

Learning outcome: Logical thinking.

ACTIVITY

A. Do the activity on an adding machine.

- Make two strips of card, about 2cm wide and about 16cm long.
- Mark one along the top edge in centimetres and number the centimetres from 0 to 16.
- Mark the other in centimetres along the bottom edge and number the centimetres from 0 to 16.



Suppose we want to find $8 + 5$?

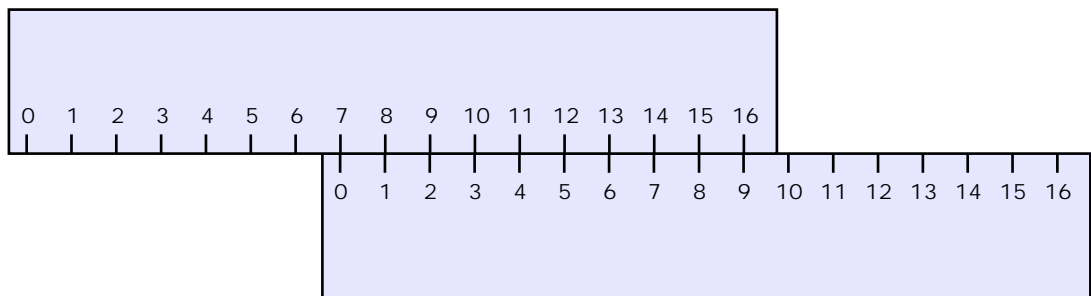
- We put 0 of the bottom strip opposite 8 of the top strip as shown.
- The number in the top strip opposite to 5, in the bottom strip is 13.

Therefore we can record the sum as $8 + 5 = 13$

B. Let us now subtract with the strips.

- To find $10-3$, we put 3 of the bottom strip opposite 10 of the top strip.
- Now read the number on the top strip that is opposite 0 in the bottom strip.
- The number is 7.

Therefore, we can record it as $10-3 = 7$



C. Use the strips to find the answer.

1. $9 + 6 =$

2. $0 + 9 =$

3. $8 + 7 =$

4. $14 - 7 =$

5. $8 - 5 =$

6. $11 - 5 =$