

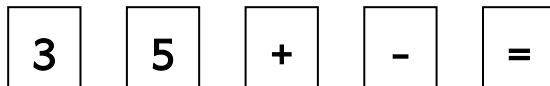
Maths with Super M



Super M's calculator is broken.

Investigation 1

Unfortunately, none of the buttons work, except for the buttons below.



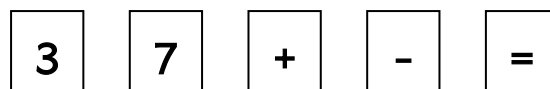
- a. Can you help SuperM make all the numbers from 1 to 20 using his broken calculator?

Example: SuperM can make 11 by using $3 + 3 + 5 = 11$

- b. Can you find different answers for the numbers?
c. Can you make more answers for more numbers?

Investigation 2

Using only these buttons make the numbers below.



a. 20

b. 57

c. 93

Investigation 3

On another calculator, the **0** button is **malfunctioning**.

Can you make 260, 206 and 2062 using any key **BUT NOT** the **0** button?

Investigation 4

SuperM tries to fix his calculator. He fixed some buttons but broke another one. Now the **1** button on the calculator is not working.

Find the answers and show how you worked it out

a. $32 + 15 =$

b. $182 + 26 =$

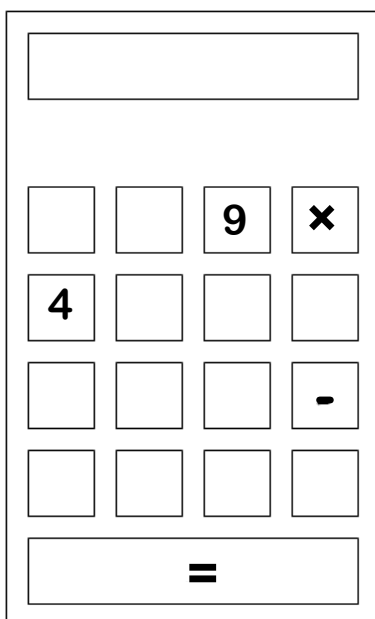
c. $125 - 18 =$

d. $52 \times 10 =$

e. $35 \times 12 =$

f. $1162 - 213 =$

Investigation 5



This is SuperM's calculator showing the keys he can use.

What numbers up to 100, can you make using only these five buttons?