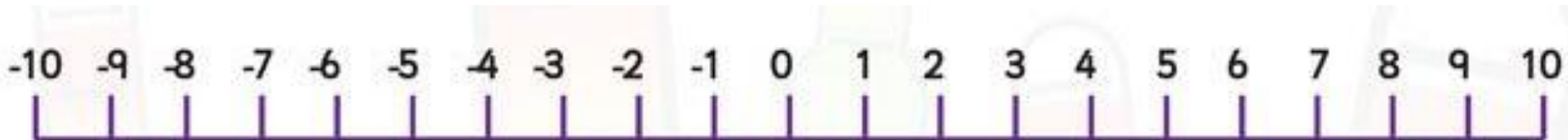


# Good Morning... Do Now Task

1. Write down all of the prime numbers between 10 and 25
2. Calculate:
  - a)  $-4 + 3$
  - b)  $-2 - 5$
  - c)  $5 - 12$
3. Write down the first 5 square numbers

## Extension

Write down the first ten multiples of 6 and the first ten multiples of 7. Can you see the *lowest common multiple*?



# Form Session 3.6

What will I learn today?

How to use a number function machine

Why will I learn it?

To help us with our work on algebra; in particular with solving equations.

**Key vocabulary for today's lesson:**

Input

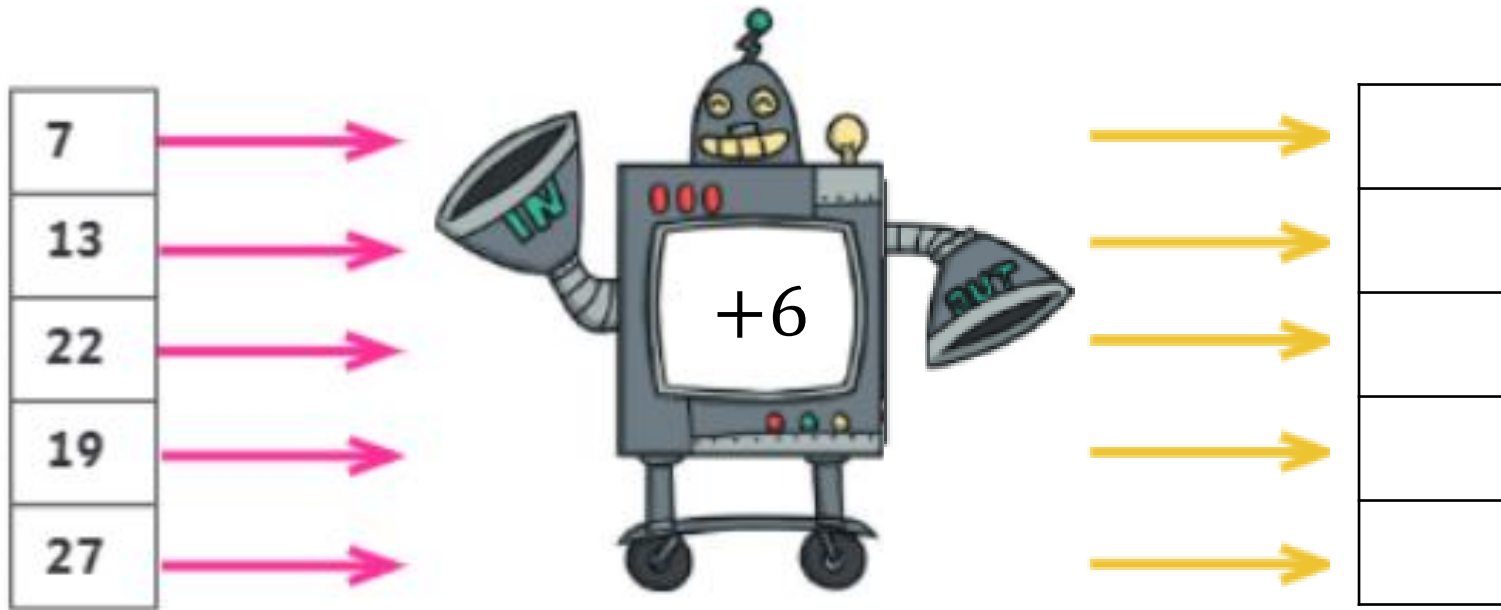
output



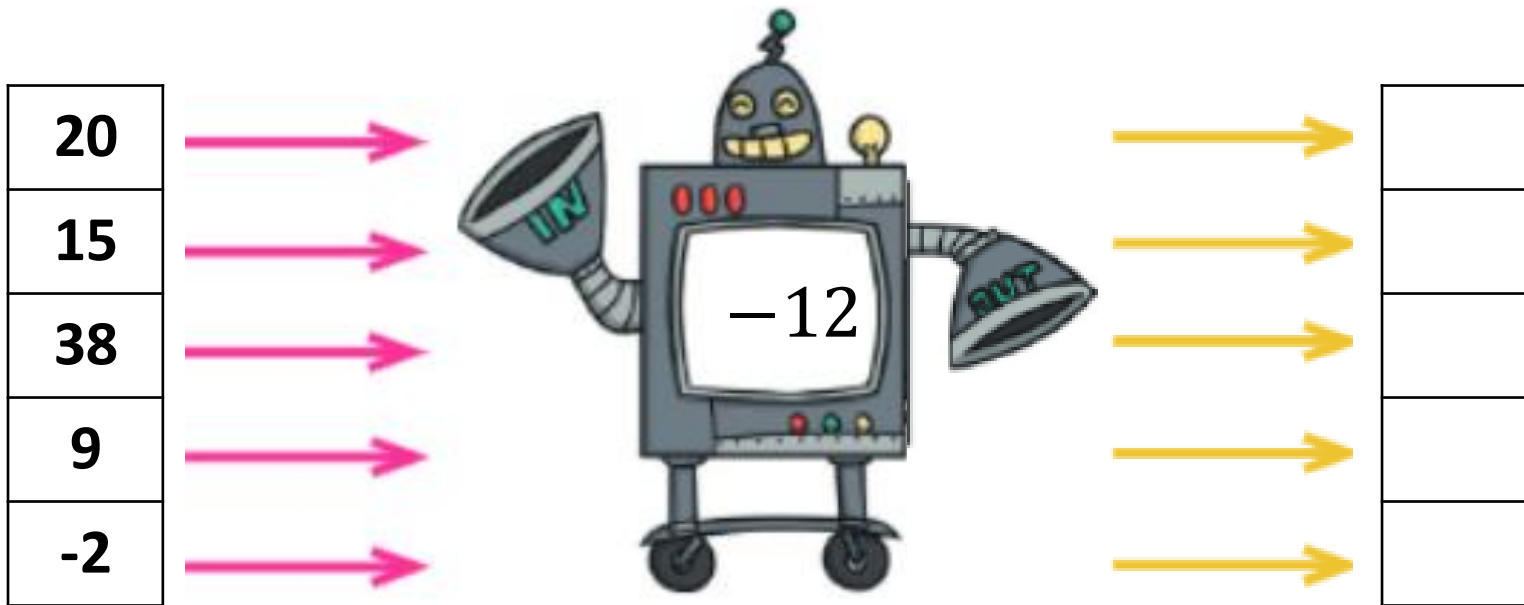
St Anne's  
Church of England Academy

The best for everyone  
The best from everyone  
We have faith in our future

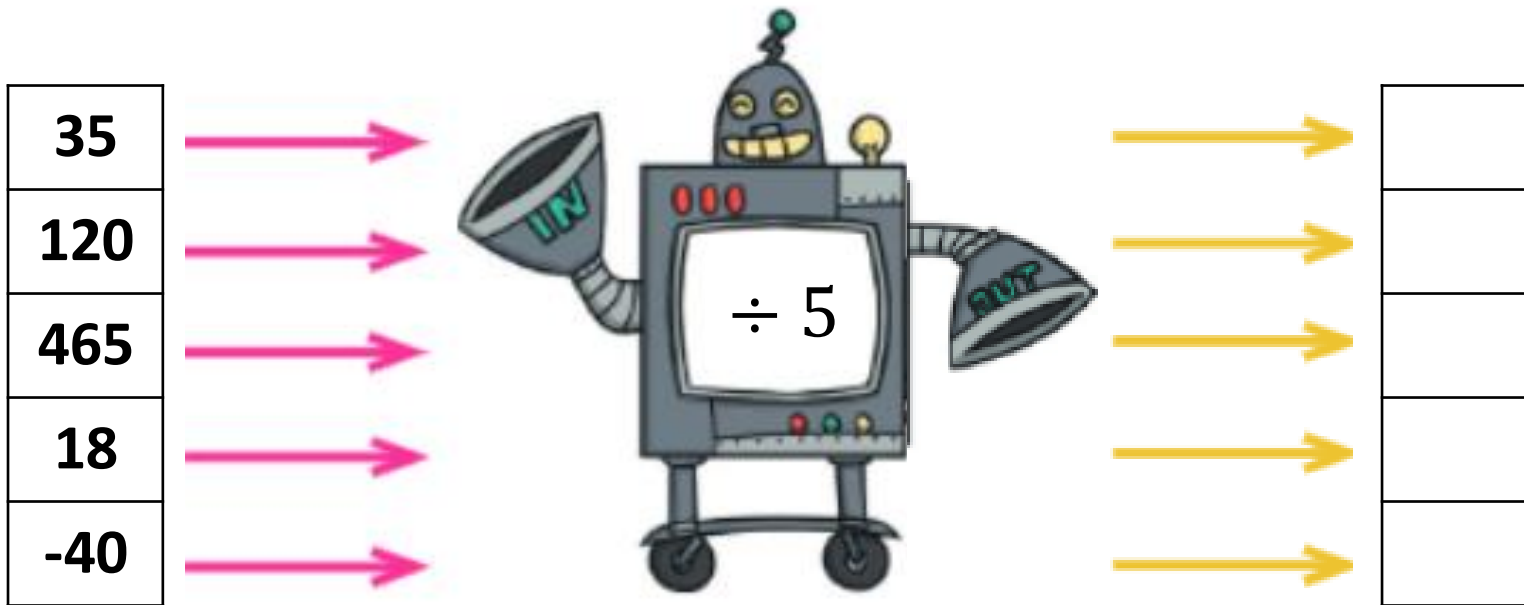
# Function Machines: Let's do together



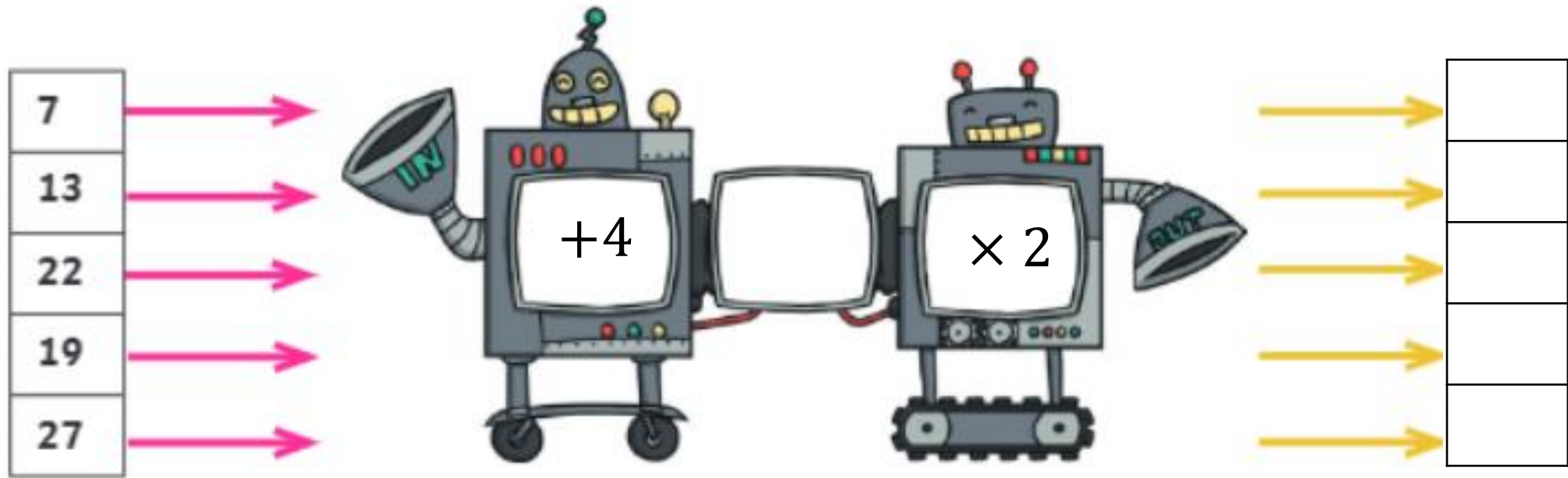
# On your whiteboards...



# On your whiteboards...

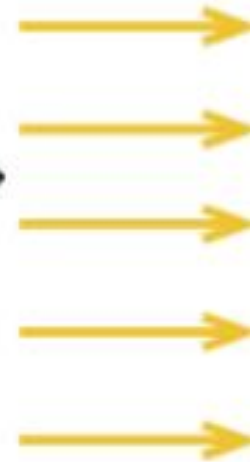
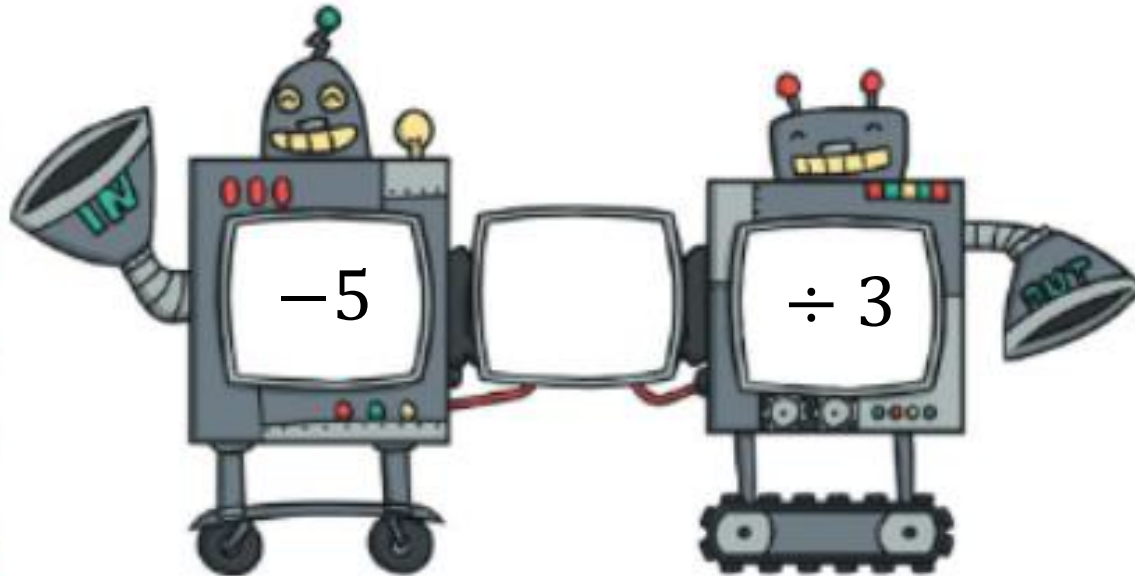
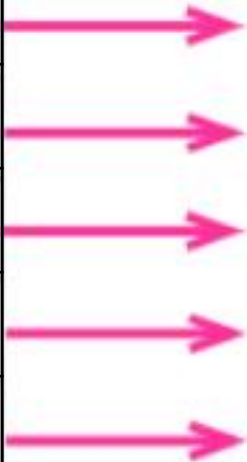


# Two-Step Function Machines: Let's do together

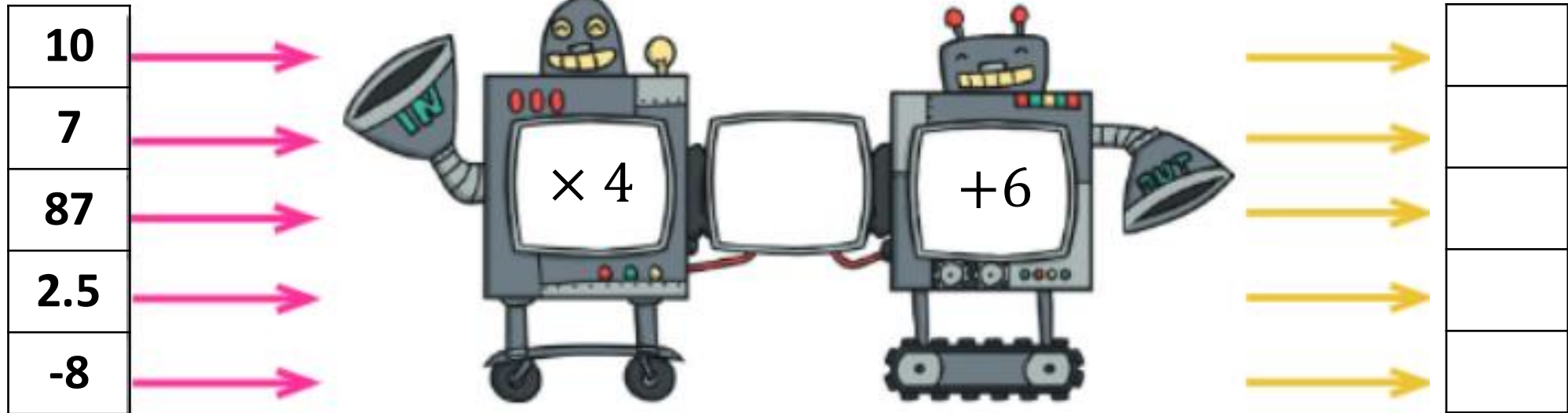


# On your whiteboards...

11
29
35
9.5
-22




# On your whiteboards...





# Function Machines - You Do

1.  $5 \rightarrow \boxed{\times 4} \rightarrow \boxed{+2} \rightarrow$

2.  $4 \rightarrow \boxed{\times 2} \rightarrow \boxed{-6} \rightarrow$

3.  $7 \rightarrow \boxed{\times 10} \rightarrow \boxed{+4} \rightarrow$

4.  $9 \rightarrow \boxed{+3} \rightarrow \boxed{\times 5} \rightarrow$

5.  $35 \rightarrow \boxed{\div 5} \rightarrow \boxed{-4} \rightarrow$

6.  $18 \rightarrow \boxed{\times 4} \rightarrow \boxed{\div 4} \rightarrow$

## Extension

1.  $-2 \rightarrow \boxed{\times 3} \rightarrow \boxed{+2} \rightarrow$

2.  $3.25 \rightarrow \boxed{\times 4} \rightarrow \boxed{+12} \rightarrow$

3.  $0.0755 \rightarrow \boxed{\times 10} \rightarrow \boxed{62} \rightarrow$

4.  $5 \rightarrow \boxed{\times 4} \rightarrow \boxed{\div 3} \rightarrow$