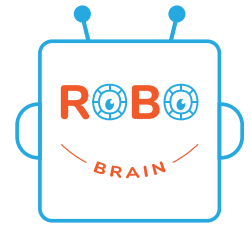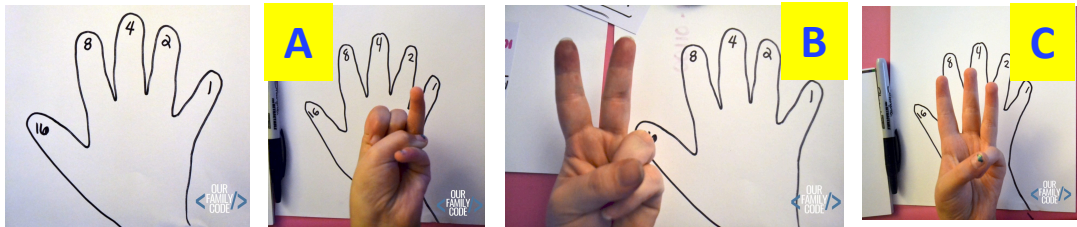# Homework - Task 1 + 2

- **Task 1:** Name three items/objects in everyday life that are binary.
  - For example, a switch is binary because it has and only has two states - on and off.

- **Task 2:** Remember the binary finger trick?

- Each finger gesture stands for a number (binary and decimal).
- As a binary number
  - When the finger is up, it stands for 1.   When the finger is down, it stands for 0.
- As a decimal number
  - The pinky stands for 1. The ring finger doubles the pinky and it is 2.
  - The middle finger doubles the ring finger and it is 4...
- To know what a binary number stands for,
  - We add up the decimal number that each UP finger is for.
  - For example, A is 00010 as binary and 2 as decimal. B is 01100 as binary and 8+4 = 12 as decimal. C is 01110 as binary and 8+4+2 = 14 as decimal.

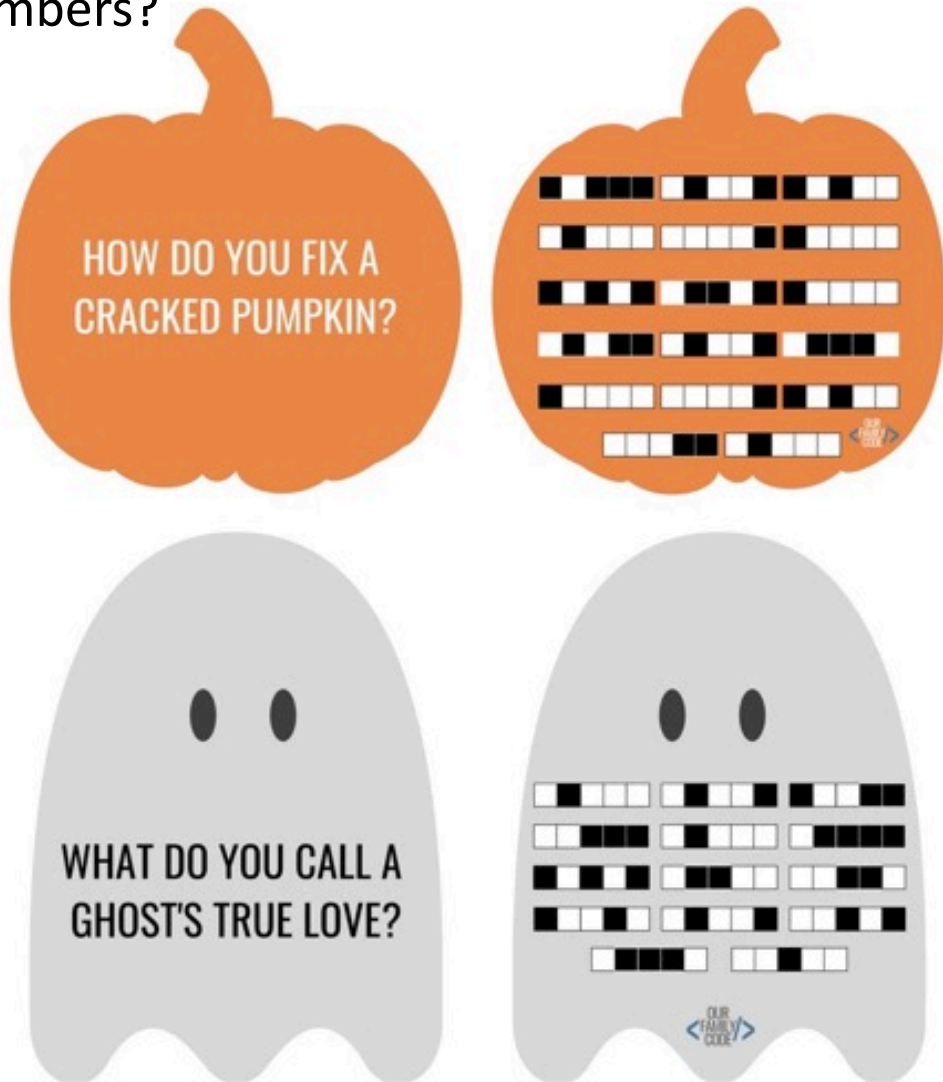- Write down the binary number and decimal number each hand stands for.

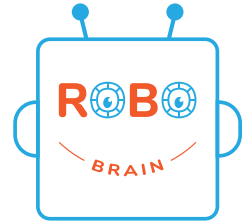| Binary number				
Decimal number				

Task 3
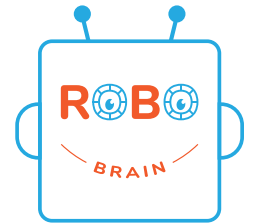
- Can you crack the following two jobs in binary numbers?

HOW DO YOU FIX A CRACKED PUMPKIN?

WHAT DO YOU CALL A GHOST'S TRUE LOVE?

1	2	3	4	5	6	7	8	9	10	11	12	13
a	b	c	d	e	f	g	h	i	j	k	l	m
14	15	16	17	18	19	20	21	22	23	24	25	26
n	o	p	q	r	s	t	u	v	w	x	y	z

Task 4

- You were walking in the binary forest and met a sage who told you that

$$1 + 1 = 10$$
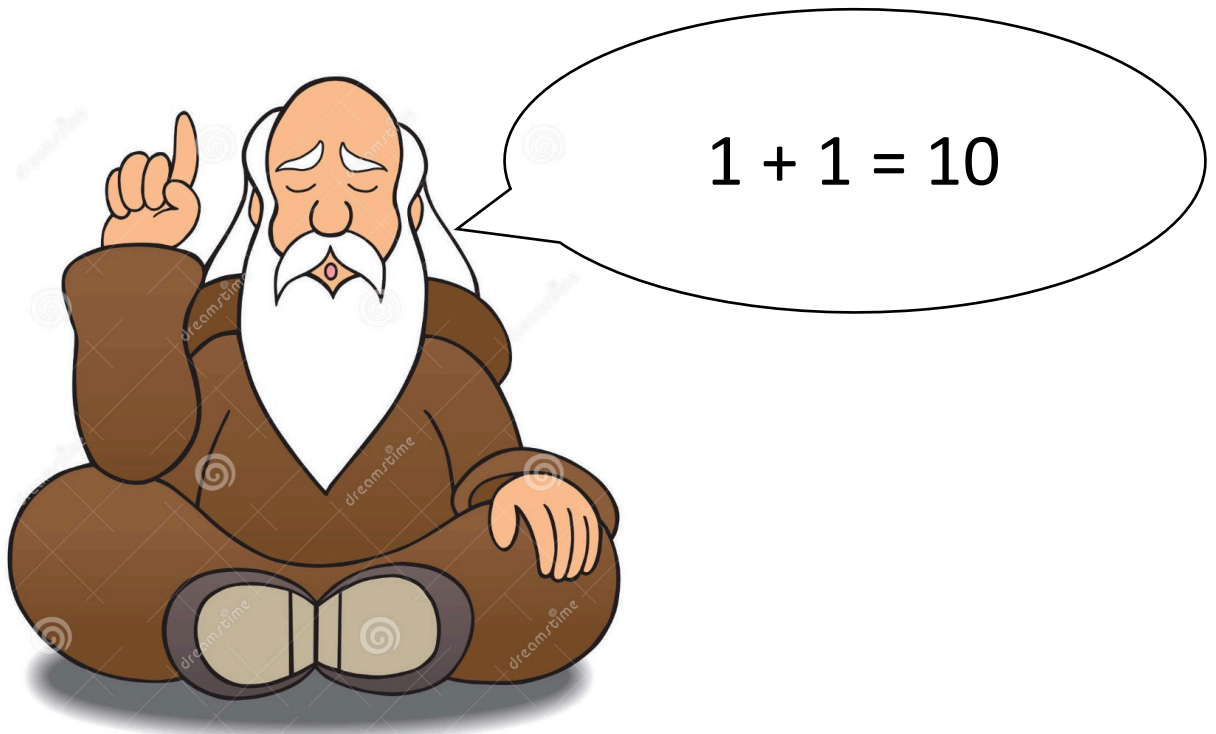
- You know that normally a sage wouldn't make a silly mistake like this.

- Can you figure out which the sage really meant?