Binary weights

The weight set on the table contains a 1-penny weight, a 2-penny weight, a 4-penny weight, an 8-penny weight, and a 16-penny weight.

Weigh a few of the things on the table using this weight set. Record the weights you used on your chart: put a 1 in the column if you used the weight and put a zero in the column if you did not use the weight.

Figure out what the total weight was in pennies. Record this number in the column marked "weight".

For each object you weigh, you will have a binary number on the left (the collection of 1's and 0's) and its equivalent base 10 number on the right.

The example weights in the table on this chart show that 23 in base 10 is 10111 in binary, and 11 in base 10 is 1011 in binary.

16	8	4	2	1	weight	object
1	0	1	1	1	23	Object 1
	1	0	1	1	11	Object 2