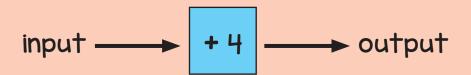


From White Rose Maths schemes for Year 6 Spring Term **BLOCK 3 - ALGEBRA** 

Here is a function machine.

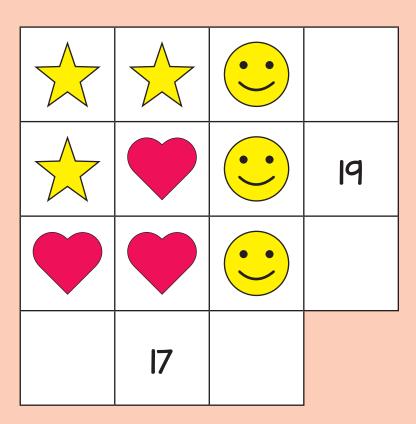


Complete the sentences.

When the input is 8, the output is

When the input is , the output is 9

2 If = 5 and = 8, find the total of each row and column.



 $oldsymbol{3}$  c and d represent positive integer variables.

$$c + d = 7$$

Complete the table to show possible values of c and d.

С	d

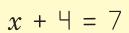
Here is another equation.

$$x + y = 10$$

If x = 4.5, what is the value of y?

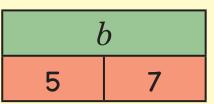
Solve the equations to find the unknown value.

Use the bar models to help you.

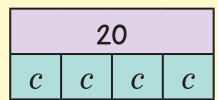




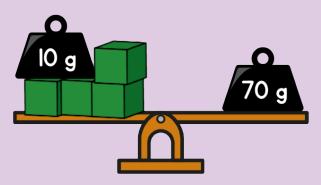
$$b - 5 = 7$$



4c = 20



5 Kim is balancing objects.



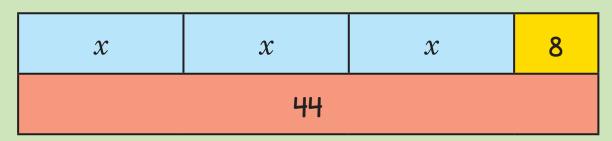
What is the mass of one of the cubes?



6 If p = 8, what is the value of 2p + 7?

7 Huan draws a bar model to help him solve

$$3x + 8 = 44$$



Solve the equation 3x + 8 = 44

8 Solve 10y - 4 = 86

Dexter is selling ice creams.

He uses this formula to work out the price where s is the number of scoops and t is the number of toppings.

price = £
$$1.50s + £0.60t$$

Work out the cost of an ice cream with 3 scoops and 2 toppings.



Dani buys an ice cream that costs £2.70

How many scoops does she have?

How many toppings does she have?

## **Answers**



- When the input is 8, the output is 12 When the input is 5, the output is 9

3	С	d
	I	6
	2	5
	3	4
	4	3
	5	2
	6	1

$$y = 5.5$$

$$x = 3$$

$$b = 12$$

$$c = 5$$

$$x = 12$$