Year 6

Rose Maths

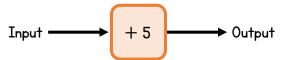
2 marks

3 marks

Algebra

Name

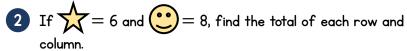
Here is a function machine.

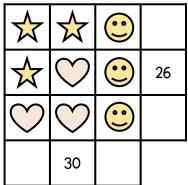


Complete the sentences.

When the input is 7, the output is _____

When the input is _____, the output is 7





3	\emph{c} and \emph{d} represent positive integer variables.
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$$c + d = 5$$

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

С	d

2 marks

Solve the equations.

$$x + 3 = 9$$

x =

$$b - 3 = 9$$

b =

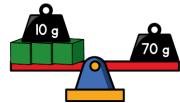
$$3c = 12$$

c =

l mark

l mark

5 Hassan is balancing objects.



What is the mass of one of the cubes?

g	2 marks

6 If p = 7, what is the value of 2p + 9?

	l m

7 Nina uses a bar model to solve 3x + 5 = 38

x	x	x	5
38			

Solve the equation 3x + 5 = 38

$$x = \frac{2 \text{ marks}}{2 \text{ marks}}$$

8	Solve $10y - 3 = 77$
	301 Verior y = 3 - 77

<u>y = </u>	2 ma

Dexter is selling ice-creams.

He uses this formula to work out the price.

$$Price = fl.50s + f0.40t$$

Where S is the number of scoops and t is the number of toppings.

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

	£	
ibby buys an ice-cream that costs £2.30		
low many scoops does she have?		

How many toppings does she have?

I mark

I mark

Circle how confident you feel with algebra.

1	2	3	4	5
Not				Very
confident				confident