H/W, Y6, their learning this term is on Ratio, Algebra and Decimals.
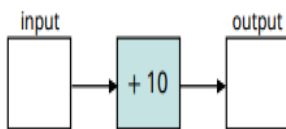
And the end of each topic they are given a formative assessment test to check on their learning. Please make sure your child carries out their homework as this will help them on their final formative assessment. Please make sure all homework is completed.

Algebra **A**

Name _____

1 Here is a function machine.

input → $+10$ → output

Complete the sentences.

When the input is 7, the output is _____

When the input is _____, the output is 50

2 Complete the total of each row and column.

⭐	⭐	🟡	—
⭐	💚	🟡	26
💚	💚	🟡	—
—	30	—	

⭐ = 6 🟡 = 8   3 marks

3 a and b are both whole numbers.

$a + b = 4$

Complete the table to show all the possible values of a and b.

a	b

2 marks

4 Solve the equations.

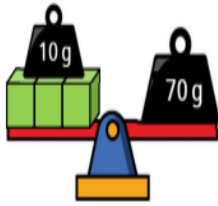$x + 5 = 7$

$x =$ _____ 1 mark

$p - 5 = 7$

$p =$ _____ 1 mark

$5c = 15$

$c =$ _____ 1 mark

2 marks

5 Here is a set of scales.
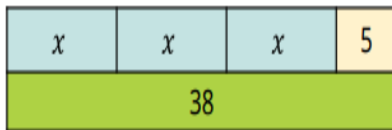

10 g

70 g

What is the mass of one cube?

_____ g

2 marks

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

_____

1 mark

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

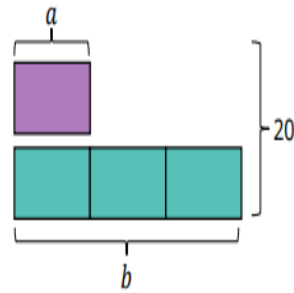| x	x	x	5
38			

Solve the equation $3x + 5 = 38$

$x =$ _____

2 marks

8 Solve $10y - 3 = 77$

$y =$ _____

2 marks

9 The sum of $a + b = 20$

b is 3 times the size of a

a

20

b

Work out the values of a and b

$a =$ _____

$b =$ _____

2 marks

Work out the value of $5a + 2b$

_____

1 mark