# Flashback 4 Year 6 Week 1 Day 3 I) What is the output if the input is l2?

- 2) Work out 40% of 60 24
- 3) What is the 4 worth is 6.145? 4 hundredths
- 4) Write down two factors of 20 Any two of I, 2, 4, 5, 10 and 20



#### RECALL

Qu	1st	2 <sup>nd</sup>	3rd	4 <sup>th</sup>	5 <sup>th</sup>	$10^{\text{th}}$	20 <sup>th</sup>	100 <sup>th</sup>	n <sup>th</sup>
1	5	10	15	20					
2	7	14	21	28					
3	4	8	12	16					
4	12	24	36	48					

I challenge YOU to do it!



Qu	<b>1</b> st	2 <sup>nd</sup>	3rd	4 <sup>th</sup>	5 <sup>th</sup>	10 <sup>th</sup>	20 <sup>th</sup>	100 <sup>th</sup>	n <sup>th</sup>
5					45				
6			45						
7	45								
8	0.25	0.5	0.75	1					
9	$\frac{3}{4}$	$1\frac{1}{2}$	$2\frac{1}{4}$	3					

#### RECALL

Qu	1 <sup>st</sup>	2 <sup>nd</sup>	3rd	4 <sup>th</sup>	5 <sup>th</sup>	10 <sup>th</sup>	20 <sup>th</sup>	100 <sup>th</sup>	n <sup>th</sup>
1	5	10	15	20	25	50	100	500	n x 5
2	7	14	21	28	35	70	140	700	n x 7
3	4	8	12	16	20	40	80	400	n x 4
4	12	24	36	48	60	120	240	1200	n x 12

I challenge YOU to do it!



Qu	<b>1</b> st	2 <sup>nd</sup>	3rd	4 <sup>th</sup>	5 <sup>th</sup>	$10^{\text{th}}$	20 <sup>th</sup>	100 <sup>th</sup>	n <sup>th</sup>
5	9	18	27	36	45	90	180	900	n x 9
6	15	30	45	60	75	150	300	1500	n x 15
7	45	90	135	180	225	450	900	4500	n x 45
8	0.25	0.5	0.75	1	1.25	2.5	5	25	n x 0.25
8	$\frac{3}{4}$	$1\frac{1}{2}$	$2\frac{1}{4}$	3	$3\frac{3}{4}$	$7\frac{1}{2}$	15	75	<b>n x</b> $\frac{3}{4}$



#### LEARNING HABITS?





- geese land. Can you draw a table to represent this?
- 2) How many pairs need to arrive for there to be 47 geese on the lake?

Can you create a function machine to show this? Be careful - it is different to yesterday's machines.

### GUIDED PRACTICE



Continue the sequence below by writing the next three terms:

3, 6, 9, 12, 15,

What am I adding from one number to the next?

- The first number in the sequence is...
- What is this sequence then?
- What would the tenth number in this sequence?

How do you know?



Continue the sequence below by writing the next three terms:

4, 7, 10, 13, 16,

What am I adding from one number to the next?

The first number in the sequence is...

What is this sequence similar to (think about )?



What would the tenth number in this sequence?

How do you know?



Continue the sequence below by writing the next three terms:

2, 5, 8, 11, 14,

What am I adding from one number to the next?

The first number in the sequence is...

What is this sequence similar to (think about )?



What would the tenth number in this sequence?

How do you know?

### INTELLIGENT PRACTICE

Here are the three sequences from the 1, 2 and 3 Chillies:



Match these three sequences to the function machines below by dragging the Chillies into the correct box.



### DIVE DEEPER 1



## DIVE DEEPER 2



## **DIVE DEEPER 3**

6) Here are three 2-step machines. For each machine. write a single step which will give the same output as the 2 steps.





#### 7) Copy and complete the answers here:

Here is a function machine.



a) Complete the table.

Input	10	3		
Output			40	280

b) Rosie puts a number into the machine and gets the same number as the

What was Rosie's number?

### SELF-ASSESSMENT

- Some will even explain how they can change two-step machines into onestep machines
- Some will explain how changing the steps affects the output
- Most will be able to do the inverse for two-step machines
- All will find the answers for two-step machines

Post-credits question (like in Marvel):



What do the different colours on the function machines mean?