# Flashback 4

I) Solve the equation 3x = 24 x = 8



Year 6 Week 2 Day 3

2) If 
$$y = 9$$
, what is the value of  $19 - y$ ?

3) Convert 
$$\frac{16}{100}$$
 to a decimal. 0.16

4) Round 736, 128 to the nearest ten thousand. 740,000





### LEARNING HABITS?







a=7 b=3 a + a + a + b =3 x a + b Ξ 3a + b b + b + b + b = 4 x b 4b 3a + 4b c = 7 d = 3  $c^{2} =$  $2d^2 =$ 

# DIVE DEEPER 1



2) If  $\uparrow$  = 6, complete the blank table with the correct values:

$$2 \uparrow$$
 $\uparrow + 2$  $\frac{\uparrow}{2}$  $4 \uparrow + 2$  $7 \uparrow$  $\uparrow - 2$  $\frac{\uparrow}{3}$  $3 \uparrow - 1$  $3 \uparrow - 5$ 



# DIVE DEEPER 2



#### **DIVE DEEPER 3**

- 6) Work out the value of the following:
- a) If t = 3 and y = 7 what is 3t + y?
- b) If r = 5 and j = 1.5 what is  $r^2 - 2j$ ?
- c) If l = 0.5 and  $p = \frac{3}{4}$ , what is I + p?

- d) If m =  $\frac{4}{5}$  and k = 0.1,
  - what is m + 2k?

9) Complete the table:

w	5w	5w - 1
2		
10		
12		
	25	
		34
		99

7) Write two different algebraic expressions that give a value of 40: If a = 10, 40 = 40 = 8) Write two different algebraic expressions that give a value of 40: If b = 15, 40 = 40 =

# SELF-ASSESSMENT

- Some will even re-arrange equations if necessary
- Some will use BIDMAS to find the correct answers
- Most will be able to substitute letters and symbols
- All will understand how to substitute symbols.



$$a = 7 b = 3$$

$$a + a + a + b = 24$$

$$3 \times a + b = 24$$

$$3a + b = 24$$

$$b + b + b = 12$$

$$4 \times b = 12$$

$$4b = 12$$

$$3a + 4b = 33$$

$$c = 7 d = 3$$

$$c^{2} = 49 2d^{2} = 18$$

## **DIVE DEEPER 1 - ANSWERS**

1)  $\mathbf{e} = 3 \mathbf{+} = 5$ Work out the following:  $\mathbf{e} + \mathbf{x} = \mathbf{8}$ ★ + 💽 = 8 Mo What do you notice? The answers are the same. Mo says, it doesn't matter what the value of the symbols are,  $\mathbf{e} + \mathbf{\star}$  will give the same answer as  $\star + \odot$ . 2 + 7 = 9 7 + 2 = 9 Mo is correct: addition is commutative 2) If  $\uparrow$  = 6, complete the blank table with the correct values:  $\frac{\uparrow}{2}$ 12 8 3 2♠ **↑** + 2 **↑** - 2 4**↑** +2 26 42 4 7♠ <u>↑</u> 2 3**1** - 1 3**1** - 5 2 17 13

## DIVE DEEPER 2 - ANSWERS

3) If a = 10 and b = 6, work out the values of the following:	4) Write >, < or = to compare the following:						
a) a + b = <mark>16</mark>	m = 7 n = 5						
b) a - b = 4	a) m 🔸 n						
c) 2a = <mark>20</mark>	b) 2m > 10						
d) 2a + b = <mark>26</mark>	c) n - 1 < 5						
e) 3a - 7 = <mark>23</mark>	d) 2m 🔸 2n						
f) 2(a - b) = <mark>8</mark>	e) 7n <mark>=</mark> 5m						
5) Write these in order, starting with the smallest: a = 10							
<b>5</b> <i>a</i> <b>a + 5</b>	$\frac{a}{5}$ $a^2$						



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DIVE DEEPER 3 - ANSWERS			7) Write three different algebraic				
6) Work out	It the value of the following:		expressions that give a value of 40:				
a) If t = 3 an i. what b) If r = 5 a	nd y = 7 is 3t + y? 1 and j = 1.5	16	If a = 10 4a = 40	), 5a - 1	0 = 40	3a + 10 = 40	
ii. what is r <sup>2</sup> - 2i?		22					
J	V		8) Write three different algebraic				
c) $Tf = 0.5 and n = \frac{3}{2}$			expressions that give a value of 40:				
c) $111 = 0.5$ and $p = \frac{1}{4}$ ,	$and p = \frac{4}{4}$	1.25					
III. what is I + p?		1.25	If b = 15.				
Л				•			
d) If m = $\frac{4}{5}$ and k = 0.1,		$2h + 10 - 40$ $3h - 5 - 40$ $2^{2}h - 40$					
iv. what	is m + 2k?	1		- 10	55 5 - 1		
9) Complete	the table						
) complete		5.		5.4	. 1		
	• • • • • • • • • • • • • • • • • • •	50		54	0		
	10	IC	, 		9		
	10		)		49		
	12	60	)		59		
	5	25	)		24		
	7	35	5		34		
	20	100	0		99		