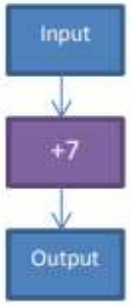
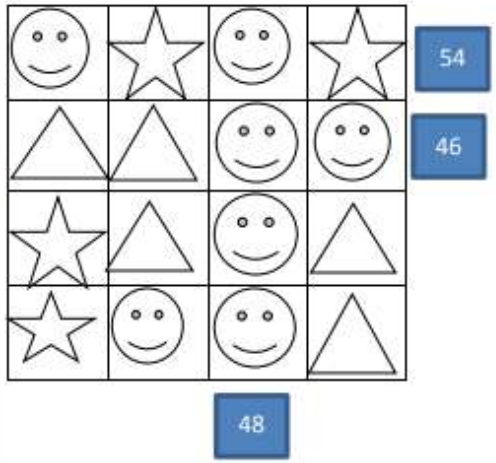
	National Curriculum Statement	All students		
		Fluency	**Reasoning**	**Problem Solving**
Algebra	Use simple formulae.	• Calculate the value of the letter in each equation. 3a = 15 | a = 5b = 10 | b = 63 = 9c | c = 12d = 48 | d = • Calculate the value of the letter in each equation. 20 = 4a + 4 | a = 3b + 5 = 11 | b = 14 = 6c – 4 | c = 2d – 5 = 5 | d = • A function machine adds 7 to any number that is inputted. What is the output when the input is: a) 15 b) 12 What is the input when the output is: a) 25 b) 42 	• If **a** stands for a number, complete the table below: **a** | **4a** | **4a + 2** 12 | | | 36 | | | 102 If the largest number in the table above was 894. What would the largest total of **a** be? • Helen says, "If there is a number before a letter, you multiply. Eg 5b If there is a number after a letter, you divide. Eg 6^{2a}" Is Helen correct? Explain your reasoning. • Kat substitutes b = 3 into the formula 4b + 5. She gets the answer 17. Is she correct? Explain your answer.	• Find the totals of the missing rows and columns.  • 7 pears and 1 banana cost 57p. 3 bananas, 1 pear and 2 apples cost 41p. 1 pear, 2 apples and 2 bananas cost 33p. How much does 1 piece of each fruit cost? Can you write each of the sentences above as a formula?