Algebra

1-step function machines

9a. Using the function below, match the inputs to the correct outputs.

Function: ÷ 7

Inputs:	Outputs:
98	12
168	24
84	14

9b. Using the function below, match the inputs to the correct outputs.

Function: x 9

Inputs:	Outputs:
37	333
42	423
47	378

10a. Circle the function being used in the function machine below.

Inputs: 18.7, 14.2

Function: ?

Outputs: 9.6, 5.1

– 5.7 ÷ 3 – 9.1

10b. Circle the function being used in the function machine below.

Inputs: 5.3, 8.2

Function: ?

Outputs: 37.1, 57.4

x 5 x 7 + 31.7

11a. Work out the missing inputs and outputs for the function machine below.

Inputs: ____, 57

Function: – 73

Outputs: -13, ____

11b. Work out the missing inputs and outputs for the function machine below.

Inputs: $\frac{1}{2}$, ____

Function: – 0.7

Outputs: ____, -1.3

12a. Tick the incorrect outputs below.

Inputs: 3.2, -6.7, 4.4

Function: – 0.9

Outputs: 2.5, -5.8, 3.5

12b. Tick the incorrect inputs below.

Inputs: 8.9, $\frac{3}{8}$, -12

Function: x 8

Outputs: 71.1, 3.5, -96

LIVEWORKSHEETS

9a. Four of the cards are inputs or outputs of the function machine below.

Circle the odd one out.

21	48	12	28	36

Input:	Function:	Output:
?	x 0.75	?

Explain your reasoning.

9b. Four of the cards are inputs or outputs of the function machine below.

Circle the odd one out.

-18.3	-16.6	3.7	-5.4	16.6

Input:	Function:	Output:
?	+ 12.9	?

Explain your reasoning.

7. Circle the correct function that will allow the inputs to be converted to the outputs below.

+ 65.5 **x 2** **+ 67.5**

Inputs:	Function:	Outputs:
152	?	219.5
75.8		143.3

Inputs:	Function:	Outputs:
209.7	?	277.2
177.2		244.7

8. Find the missing functions in the function machines below.

A.

Inputs:	Function:	Outputs:
75.6	÷ ?	12.6
168		28
26.4		4.4

B.

Inputs:	Function:	Outputs:
97.9	– ?	24.9
-13.6		-86.6
77.5		4.5

LIVEWORKSHEETS