(3) Work out the missing outputs and inputs.


Who is correct? $\qquad$
Explain to a partner who you think is correct.
Use the function machine to complete the table.

| Input | 1 | 2 | 3 | 5 | 10 | 50 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Output |  |  |  |  |  |  |

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4. Tick the pairs of function machines that will give the same outputs for a given input.


b)


Explain your reasoning to a partner.
(5) Here are some 2-step function machines.

For each machine, write a single step that would give the same output.

Check your answers by inputting values.

$\qquad$


Can all 2-step function machines be written as a 1-step function machine?
Talk about it with a partner.
(6) Here is a function machine.

a) Complete the table.

| Input | 10 | 3 |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Output |  |  | 40 | 280 |

b) Rosie puts a number into the machine and she gets out the same number.

Work out Rosie's number.
(7) Mr Hall and Mrs Rose order some photos online.
a) Mr Hall orders 16 photos.

How much does he pay?

b) Mrs Rose pays $£ 6.05$

How many photos did she order?

