

Examples



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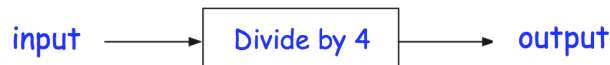
Workout

Question 1: Here is a function machine



- (a) Work out the output when the input is 12
- (b) Work out the output when the input is 35
- (c) Work out the input when the output is 14
- (d) Work out the input when the output is 10.5

Question 2: Here is a function machine



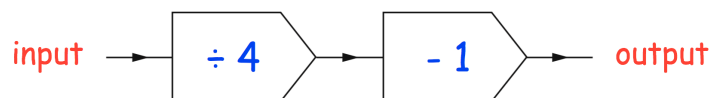
- (a) Work out the output when the input is 40
- (b) Work out the output when the input is 22
- (c) Work out the input when the output is 7
- (d) Work out the input when the output is 9.5

Question 3: Here is a function machine



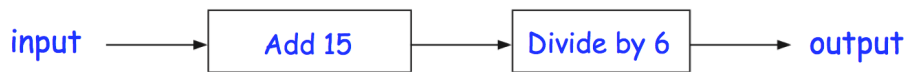
- (a) Work out the output when the input is 8
- (b) Work out the output when the input is 2
- (c) Work out the input when the output is 26
- (d) Work out the input when the output is -4

Question 4: Here is a function machine



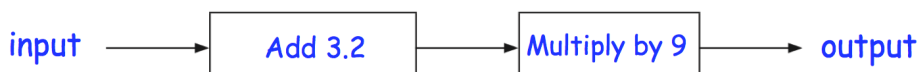
- (a) Work out the output when the input is 24
- (b) Work out the output when the input is 42
- (c) Work out the input when the output is 17
- (d) Work out the input when the output is 4.5

Question 5: Here is a function machine



- (a) Work out the output when the input is 27
- (b) Work out the output when the input is -6
- (c) Work out the input when the output is 9
- (d) Work out the input when the output is 0

Question 6: Here is a function machine



- (a) Work out the output when the input is 1
- (b) Work out the output when the input is 4.5
- (c) Work out the input when the output is 180
- (d) Work out the input when the output is 38.7

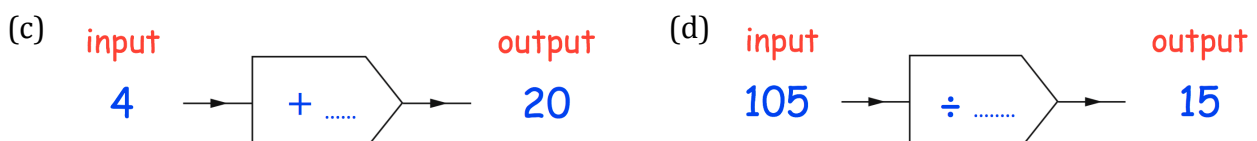
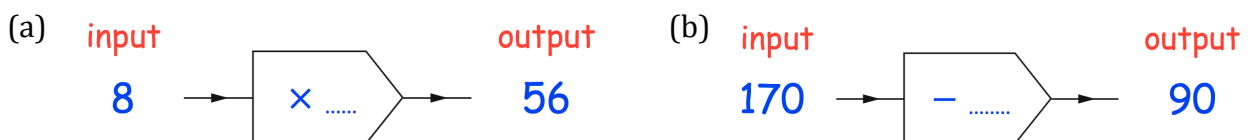
Question 7: Here is a function machine



- (a) Work out the output when the input is 75
- (b) Work out the output when the input is 4000
- (c) Work out the input when the output is 0
- (d) Work out the input when the output is 60

Apply

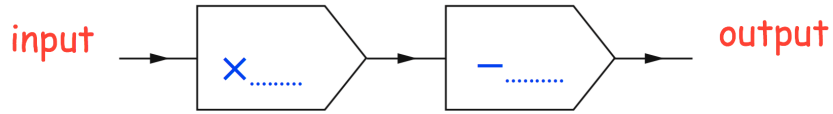
Question 1: Complete the following function machine so that the inputs gives the correct outputs.



Function Machines

Video 386 on www.corbettmaths.com

Question 2:

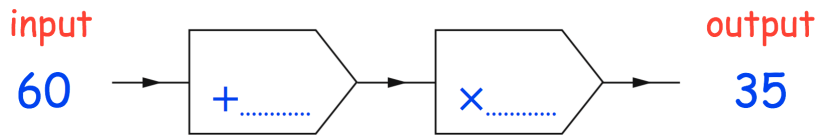


If the input is 3, the output is 13.

If the input is 8, the output is 38.

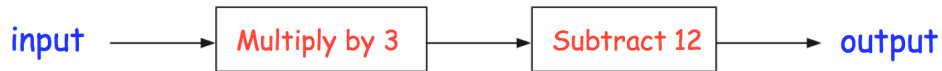
Use this information to fill in the two boxes.

Question 3: Here is a function machine.



Complete the following function machine so that the input gives the correct output.

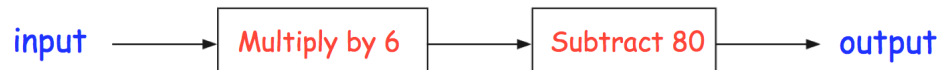
Question 4: This function machine multiplies a number by 3 and then subtracts 12.



The input is the same as the output.

Find the input.

Question 5: This function machine multiplies a number by 6 and then subtracts 80.



The input is the same as the output.

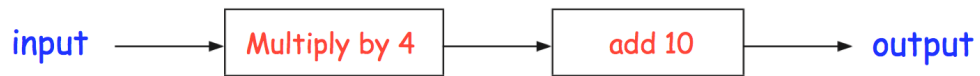
Find the input.

Question 6: Here is a function machine.



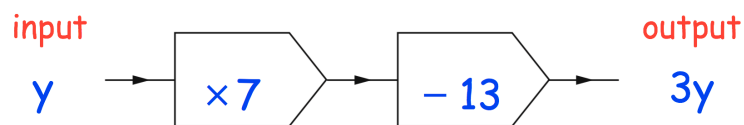
Lucas says that it is not possible to have the same value for the input and output. Show Lucas is wrong.

Question 7: Here is a function machine.



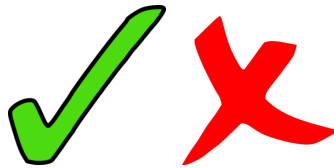
The output is twice the input.
Find the input.

Question 8: Here is a function machine.
The input is y and the output is $3y$



Find the value of the output

Answers



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