

Function Machines: Forwards and Backwards

ANSWERS

1
What comes out? Follow the arrows.



Out 10

2
What comes out? Follow the arrows.



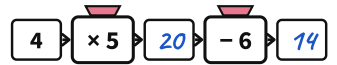
Out 16

3
What comes out? Follow the arrows.



Out 15

4
What comes out? Follow the arrows.



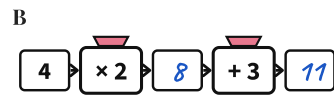
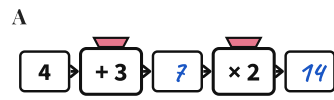
Out 14

5
Each number goes into this machine. Fill in the table.



In	2	5	10
Out	8	20	40

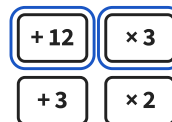
6
4 goes into both rows. Which row gives the bigger number, A or B?



Bigger A: 14, B: 11

7
6 goes into a machine and 18 comes out. Circle every machine that could do it.

6 → ? → 18



8
Mo earns £6 an hour and gets a £4 bonus. He works 3 hours. How much does he get?



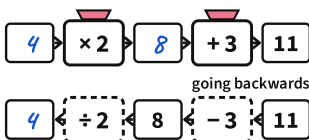
Mo gets £22

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further practice

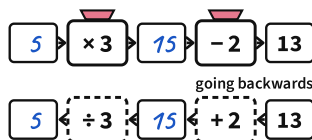
ANSWERS

9
What went in? Going backwards, do the opposite.



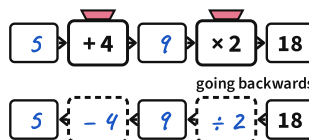
In 4

10
What went in? Going backwards, do the opposite.



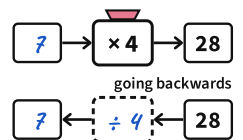
In 5

11
What went in? Going backwards, do the opposite.



In 5

12
What went in? Going backwards, do the opposite.



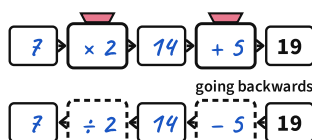
In 7

13
5 goes in. The first machine multiplies. 16 comes out. What does the first machine multiply by?



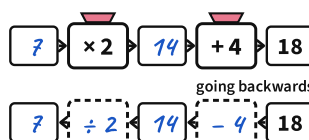
It multiplies by 3

14
Jo thinks of a number. She doubles it, then adds 5. She gets 19. What was her number?



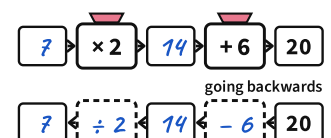
Jo's number 7

15
A taxi charges £2 a mile, then adds £4. A ride costs £18. How many miles is the ride?



Miles 7

16
20 comes out. Sam works backwards: 20 ÷ 2 = 10, then 10 - 6 = 4. Is Sam right? Explain.



No. Undo + 6 first: 14, then 14 ÷ 2 = 7.