

Arithmetic


1. $2,592 \div 9$

2. $476 + 36 \div 3$

3. $\frac{2}{5} \div 9$

4. 5.4×3.2

Practice: Find a Rule (1 and 2 steps)

5. Recap: Explain how to use this function machine. 

Input \rightarrow $\times 3$ \rightarrow Output

6. What are the outputs to this function machine if these are the inputs?
a. 7 b. 9 c. 100

Input \rightarrow $\times 3$ \rightarrow Output

7. What are the inputs to this function machine if these are the outputs?
a. 5 b. 20 c. -2


Input \rightarrow $- 7$ \rightarrow Output

8. Work out the missing function.

25 \rightarrow \rightarrow 5
100 \rightarrow \rightarrow 20
1 \rightarrow \rightarrow 0.2

9. What are the outputs if these are the inputs?
a. 2
b. 30
c. 100

Input \rightarrow $\times 5$ \rightarrow $+ 3$ \rightarrow Output

10. Explain how to use a function machine with two functions. 


Input \rightarrow $\times 5$ \rightarrow $+ 3$ \rightarrow Output

11. What are the inputs if these are the outputs?
a. 6
b. 20
c. 0.2

Input \rightarrow $\div 2$ \rightarrow $- 4$ \rightarrow Output

12. What are the outputs if these are the inputs?
a. 4
b. $-\frac{3}{2}$
c. $\frac{1}{2}$

Input \rightarrow $+ 6$ \rightarrow $\times 4$ \rightarrow Output

13. Chelsy is using the function machine. 

Is Chelsy correct?
Explain.

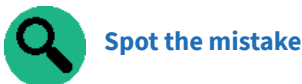
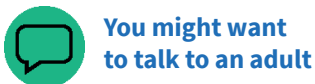
5 \rightarrow $+ 3$ \rightarrow $\times 5$ \rightarrow 28

Challenge 14. Circle the odd one out and explain your answer.

a. 8 \rightarrow $\times 4$ \rightarrow $\div 2$ \rightarrow Output

b. 4 \rightarrow $+ 6$ \rightarrow $\times 2$ \rightarrow Output

c. 15 \rightarrow $+ 2$ \rightarrow $- 1$ \rightarrow Output



Answers

Q no.	Question	Answer
1	$2,592 \div 9$	288
2	$476 + 36 \div 3$	488
3	$\frac{2}{5} \div 9$	$\frac{2}{45}$
4	5.4×3.2	17.28
5	Explain how to use this function machine.	To use the function machine with the function 'x 3' you take your number (input) and multiply it by 3 to give the answer (output).
6	What are the outputs to this function machine if these are the inputs?	a. 21, b. 27, c. 300
7	What are the inputs to this function machine if these are the outputs?	a. 12, b. 27, c. 5
8	Work out the missing function.	$\div 5$
9	What are the outputs to this function machine if these are the inputs?	a. 13, b. 153, c. 503
10	Explain how to use a function machine with two functions.	To use a function machine with two function, first take your input number, complete the first function then complete the second function. This will provide you with an answer (output). For example, input = 1 $1 \times 5 = 5$ $5 + 3 = 8$ Output = 8
11	What are the inputs to this function machine if these are the outputs?	a. 20, b. 48, c. 8.4
12	What are the outputs to this function machine if these are the inputs?	a. 40, b. 12, c. 26
13	Is Chelsy correct? Explain.	Chelsy has multiplied her number by five before adding 3. By confusing the order of her calculation, Chelsy has found the wrong answer (output). The correct answer is 40.
14	Circle the odd one out and explain your answer.	Each answer could be the odd one out, the pupil must make their decision clear in their explanation. a. output = 16 b. output = 20 c. output = 16 Possible answers could be: a is the odd one out as it is the only calculation involving division. b is the odd one out as the output is 20, not 16 like the other calculations. c is the odd one out as it does not involve multiplication or division.