

Maths Homework (11.02.2022)

This week we have been learning all about algebra. Please solve the problems below on equations and two-step rules.

If you find any tricky leave them out and we will help you on Friday.

Forming Equations

4. Match each word problem to the correct algebraic equation.

A. Haz thinks of a number. He divides it by 2. The answer is 20.5.

$$9n - 2 = 20.5$$

B. Jassy thinks of a number. She adds 20.5. Her answer is 22.5.

$$n \div 2 = 20.5$$

C. Po thinks of a number. He multiplies it by 9 and subtracts 2. His answer is 20.5.

$$n + 20.5 = 22.5$$



VF
HW/Ext

5. Write algebraic equations to match the information below.

A. Ben is making biscuits (b). He shares them between 6 people. They each get 5 biscuits.

B. Paulo has a bag of sweets (s). He is given 6 more. He has 15 sweets in total.

C. Lenny thinks of a number (n). He multiplies it by $\frac{1}{2}$ and then subtracts 4. His answer is 6.



VF
HW/Ext

6. Ellie thinks that her story matches the equation below.

$$m \div 4 - 1 = 5$$



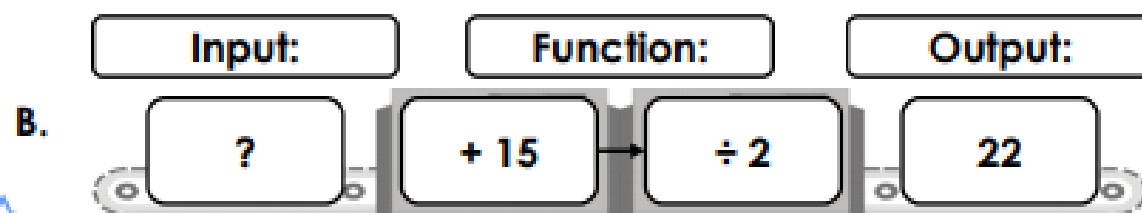
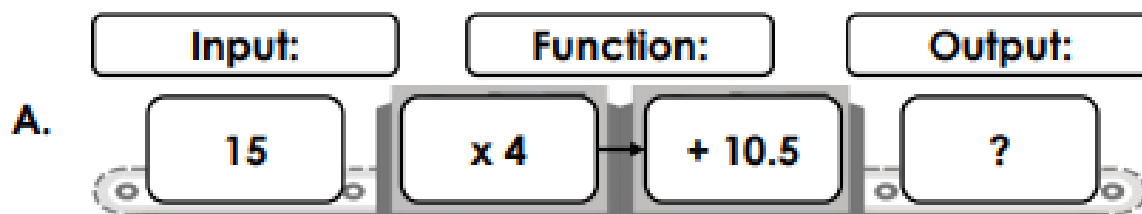
I have some marbles. I share them between 4 friends. Then, I give each friend one more marble. My friends end up with 5 marbles each.

Is Ellie correct? Explain why.



Find a Rule – Two Step

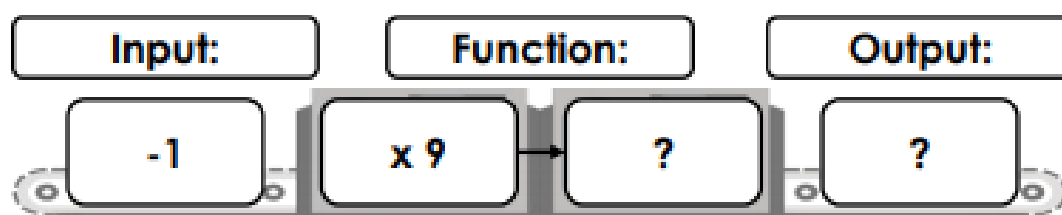
4. Find the missing input and output to the two-step function machines below.



5. Match the inputs and outputs to the correct two-step function below.

Inputs:	Function:	Outputs:
17.5	$\times 2 \quad + 10$	32
11	$\div 2 \quad - 9$	15
8	$- 10 \quad \times 2$	-5

6. The output of the two-step function machine below is between 0 and 50.



Complete the missing function in order to work out what the output could be.

Find 3 possibilities.