

Week 14

Friday 26th June 2020

Year 5 Using One-Step Algebraic Rules - Problem Solving and Reasoning

*As Algebra is mainly a Year 6 objective, you only have **D** and **E** to complete

Find a Rule – One Step

1a. Jill has four more pets than Lark.

If Lark has x pets, which statement is true?

A) Jill has $x - 4$ pets

B) If Jill has 10 pets, Lark has 14

C) Jill has $x + 4$ pets



Find a Rule – One Step

1b. Molly has twice as many shoes as James.

If James has y shoes, which statement is true?

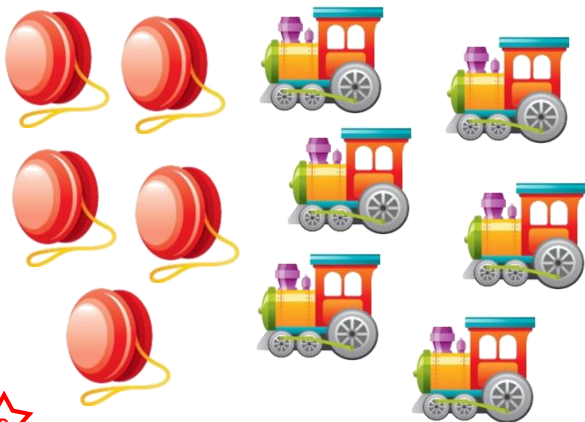
A) Molly has $2y$ shoes

B) Molly has $2 + y$ shoes

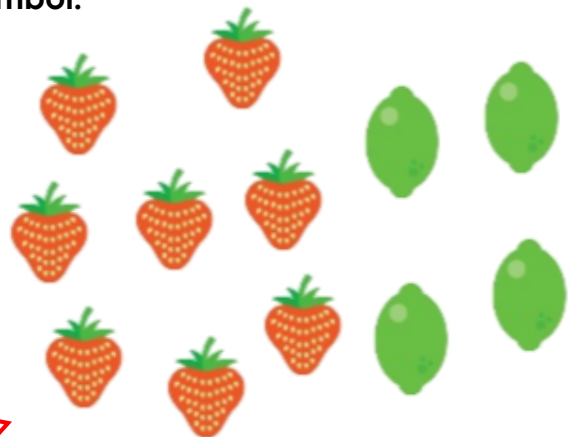
C) If Molly has 5 shoes, James has 10



2a. Write an algebraic expression to show how many yoyos there are if trains equals a . Use an addition or subtraction symbol.

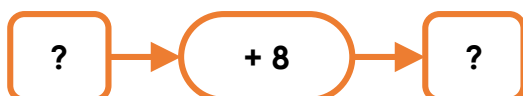


2b. Write an algebraic expression to show how many limes there are if strawberries equals y . Use an addition or subtraction symbol.



3a. Four of the cards are inputs or outputs of the function machine.

Circle the odd one out.



Explain your reasoning.



3b. Four of the cards are inputs or outputs of the function machine.

Circle the odd one out.



Explain your reasoning.



Find a Rule – One Step

4a. Sandra has three times fewer spoons than Kyle.
If Sandra has x spoons, which of these are true?

A) Kyle has $3x$ spoons

B) Kyle has $x + x + x$ spoons

C) If Kyle had 18 spoons, Sandra had 54



Find a Rule – One Step

4b. Laura has seven fewer counters than D'Angelo.
If D'Angelo has c counters, which of these are true?

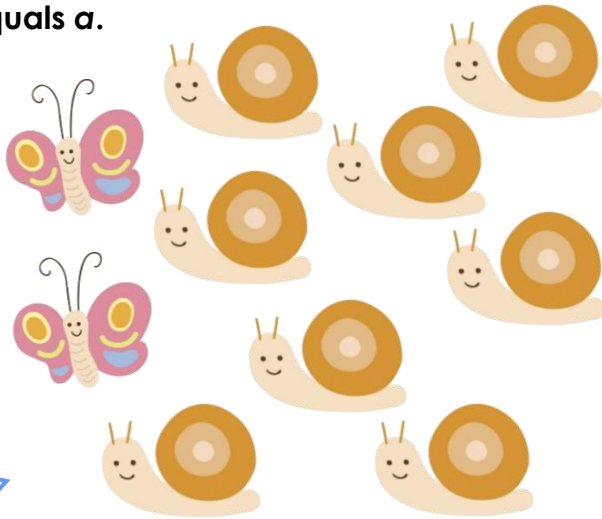
A) Laura has $c - 7$ counters

B) Laura has $c + 7$ counters

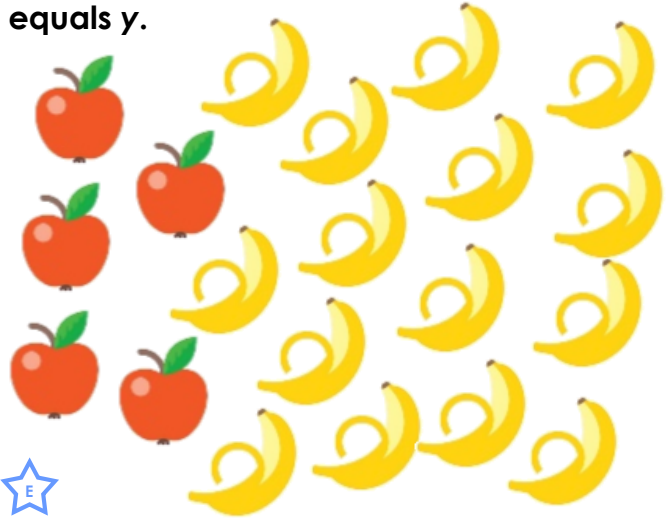
C) If D'Angelo has 18 counters, Laura has 25



5a. Write an algebraic expression to show how many butterflies there are if snails equals a .



5b. Write an algebraic expression to show how many bananas there are if apples equals y .



6a. Four of the cards are inputs or outputs of the function machine.

Circle the odd one out.

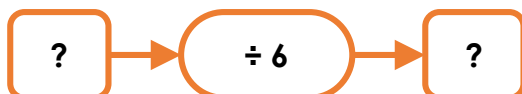
42

4.1

9

24.6

7



Explain your reasoning.



6b. Four of the cards are inputs or outputs of the function machine.

Circle the odd one out.

20.8

8

36

5.2

9



Explain your reasoning.

