Week 14

Thursday 25th June 2020

Year 5 One-Step Algebraic rules - Varied Fluency
*As Algebra is mainly a Year 6 objective, you only have **D** and **E** to complete.

Find a Rule – One Step

Find a Rule – One Step

1a. Match the function to its equivalent algebraic rule.

Add 5 to x	$2x$
Subtract 10 from x	$x - 10$
5 less than x	$x + 5$
Multiply x by 2	$x - 5$

1b. Match the function to its equivalent algebraic rule.

Double y	$y + 3$
2 more than y	$y + 2$
3 more than y	$y - 3$
Subtract 3 from y	$2y$

2a. Circle the function being used here.

10		20
4	?	14
23		33

$2a$ $a + 10$ $10a$

2b. Circle the function being used here.

14		7
8	?	1
10		3

$b - 7$ $b + 7$ $2b$

3a. Work out the missing inputs and outputs for this function machine.

16		?
a	$- 9$	?
?		21

3b. Work out the missing inputs and outputs for this function machine.

x		?
?	$\times 2$	16
5		?

4a. Match the equation to its answer if $b = 5$.

$2b$	10
$b + 4$	3
$17 - b$	9
$b - 2$	12

4b. Match the equation to its answer if $v = 7$.

$15 + v$	3
$v + 1$	22
$10 - v$	8
$2v$	14

Find a Rule – One Step

Find a Rule – One Step

5a. Match the function to its equivalent algebraic rule.

Add 2.5 to x	$9x$
Double x	$x \div 9$
Multiply x by 9	$2x$
9 times smaller than x	$x + 2.5$

5b. Match the function to its equivalent algebraic rule.

2 less than y	$5 + y$
Multiply y by 5	$5y$
Add 5 to y	$y \div 2$
Halve y	$y - 2$

6a. Circle the function being used here.

6		18
4.2	?	12.6
3.5		10.5

$4a$ $a + 12$ $3a$

6b. Circle the function being used here.

5.2		4.8
6	?	4
8.6		1.4

$10 - b$ $b - 2$ $b - 10$

7a. Work out the missing inputs and outputs for this function machine.

28		?
?	$\div 4$	6
a		?

7b. Work out the missing inputs and outputs for this function machine.

3.6		?
11	$+ 2.4$	?
?		x

8a. Match the equation to its answer if $y = 15$.

$2y$	3
$4.4 + y$	19.4
$y - 12$	7.5
$y \div 2$	30

8b. Match the equation to its answer if $t = 10.6$.

$t \div 2$	13
$t + 2.4$	4.4
$15 - t$	5.6
$t - 5$	5.3