Week 14

Thursday 25th June 2020

Year 6 One-Step Algebraic rules - Varied Fluency

# Find a Rule - One Step

## Find a Rule - One Step

1b. Match the function to its equivalent

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

Add 5 to x

**2**x

Double y

algebraic rule.

y + 3

Subtract 10 from x

x - 10

y + 2

5 less than x

x + 5

y - 3

Multiply x by 2

x - 5

Subtract 3 from y

2 more than y

3 more than y

**2**y

2a. Circle the function being used here.

2b. Circle the function being used here.

10

20

14

8

4

?

14

33

10

?

1

3

7

23

2a

a + 10

10a

b-7

b + 7

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

2b

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

16

a

?

9

?

21

?

5

X

x 2

?

16

?

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

2b

10

b + 4

17 - b

b-2

3

9

12

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

15 + v

3

v + 1

22

10 - v

8

W

2v

14

# Find a Rule - One Step

## Find a Rule - One Step

5b. Match the function to its equivalent

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

Add 2.5 to x

9x

2 less than y

algebraic rule.

5 + y

Double x

x ÷ 9

Multiply y by 5

5у

Multiply x by 9

**2**x

Add 5 to y y ÷ 2

9 times smaller than x

x + 2.5

Halve y

y-2

6a. Circle the function being used here.

6b. Circle the function being used here.

6

18

5.2

4.8

4.2

12.6

6

3.5

10.5

4

8.6

1.4

**4**a

a + 12

?

3а

10-b

b-2

7b. Work out the missing inputs and

outputs for this function machine.

?

b - 10

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

28

?

3.6

?

?

a

÷ 4

6

?

11

?

+ 2.4

8b. Match the equation to its answer if

?

X

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

**2**y

4.4 + y

y – 12

3

19.4

7.5

t ÷ 2

t = 10.6.

13

t + 2.4

4.4

15 - t

5.6

宜

t-5

5.3

y ÷ 2

30

# Find a Rule – One Step

## Find a Rule - One Step

9a. Match the function to its equivalent algebraic rule.

10 times smaller than x

10 + x

10 more than x

0.25x

10 less than x

10

A quarter of x

x - 10

9b. Match the function to its equivalent algebraic rule.

5 more than y

y - 5

Half of y

y<sup>2</sup>

5 less than y

y + 5

y times y

0.5y



10a. Circle the function being used here.

6.5

9

13

?

-10.5

-3

6

10b. Circle the function being used here.

15

18

-10.5

?

-9

14.5

-10.75



a - 17

a - 30

÷ 5

3a - 30

r - 18.5

2r – 18

0.5r - 18

11a. Work out the missing inputs and outputs for this function machine.

10.5

a

X

?

?

outputs for this function machine.

11b. Work out the missing inputs and

m

?

**- 26** 

-2.4

-0.8



12a. Match the equation to its answer if v = 9.9

2v

19.8

2.8 - v

<u>v</u>

5.4

3.3

12b. Match the equation to its answer if c = 4.8.

c - 5.3

19.2

-7.9 + c

2.4

4c

-0.5

-3.1



-4.5 + v

-7.1