

# Week 15

**Wednesday 1st July 2020**

## **Year 5 Use an Algebraic Rule - Varied Fluency**

Review how to solve an Algebraic expression when given the value of the variable using the link:

<https://www.youtube.com/watch?v=DOKiZfX9ePk>

\*As Algebra is mainly a year 6 objective, you only need to complete **D** and **E**

## Use An Algebraic Rule

1a. Calculate the output for the following rules where  $a = 12$ .

$$(a + 10) \times 2$$

$$2a - 4$$

$$(a - 3) \times 2$$



## Use An Algebraic Rule

1b. Calculate the output for the following rules where  $a = 7$ .

$$(2a + a) - 2$$

$$(56 + 10) - a$$

$$35 + a$$



2a. Match the output to the correct expression, where  $a = 10$ .

$$45 - 2a$$

62

$$(a + 5) \times 2$$

25

$$72 - a$$

30



2b. Match the output to the correct expression, where  $a = 2$ .

$$9 + (a - 1)$$

10

$$100 - 2a$$

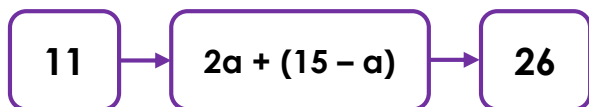
14

$$(a + 5) \times 2$$

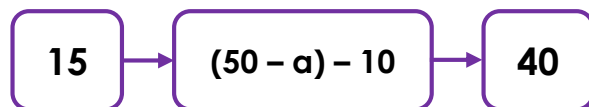
96



3a. True or false?



3b. True or false?



4a. Toby is using the expression  $5 + 2a$ .

Calculate the value of  $a$  when his outputs are;

$$5 + 2a$$



4b. Tim is using the expression  $(a - 2) \times 2$ .

Calculate the value of  $a$  when his outputs are;

$$(a - 2) \times 2$$



## Use An Algebraic Rule

5a. Calculate the output for the following rules where  $a = 5$ .

$2a + 5$

$(a + 3) \div 4$

$4a - 15$



## Use An Algebraic Rule

5b. Calculate the output for the following rules where  $a = 9$ .

$a^2 - 7$

$(10a - 6) \div 2$

$12 + 3a$



6a. Match the output to the correct expression, where  $a = 10$ .

$3a - 5$

3

$(a - 4) \div 2$

23

$2a + 3$

25



6b. Match the output to the correct expression, where  $a = 7$ .

$25 + 5a$

18

$(a \div 7) + 8$

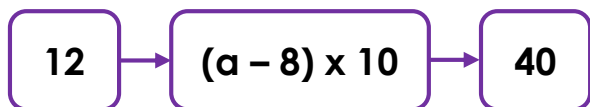
9

$(a - 4) \times 6$

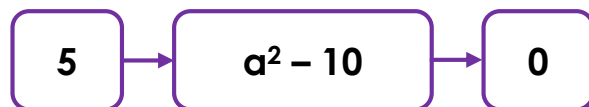
60



7a. True or false?



7b. True or false?



8a. Ivy is using the expression  $(a - 1) \div 3$ .

Calculate the value of  $a$  when her outputs are;

$(a - 1) \div 3$

3

5

10



8b. Jo is using the expression  $8a - (a \div 2)$ .

Calculate the value of  $a$  when her outputs are;

$8a - (a \div 2)$

75

90

30

