

Week 15

Friday 3rd July 2020

Year 5 Finding Pairs of values - Varied Fluency
Watch the demonstration on finding pairs of values:
<https://www.youtube.com/watch?v=O-bQyDTtPz4>

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

Substitution

1a. Match the expressions to their values.

If  = 2 and  = 10.

A.  + 

8

B.  - 

20

C.  x 

4



Substitution

1b. Match the expressions to their values.

If  = 5 and  = 25.

A.  - 

20

B.  + 

30

C.  + 

50



2a. True or false?

If $a = 10$ and $b = 5$.

$$2a + b = 22$$



2b. True or false?

If $a = 7$ and $b = 15$.

$$2b - 2a = 16$$



3a. Tick the substitution used for this expression if the value is 225.

$a + 2b$

$a = 100, b = 25$

$a = 25, b = 100$



3b. Tick the substitution used for this expression if the value is 100.

$a - 2b$

$a = 200, b = 50$

$a = 50, b = 200$



4a. Who is correct?

$a = 20, b = 4$



Mo

$(a + b) \times 10$
is $26 \times 10 = 260$



Millie

$(a - b) \times 10$
is $16 \times 10 = 160$



4b. Who is correct?

$a = 5, b = 100$



Euan

$b - 2a$
is $100 - 5 = 95$



Mia

$b - 2a$
is $100 - 10 = 90$



Substitution

5a. Match the expressions to their values.

If $\star = 5$ and $\bullet = 2$.

- A. $\star + \star - \bullet$
- B. $\bullet + \star + \bullet$
- C. $\star + \star + \star$



Substitution

5b. Match the expressions to their values.

If $\blacklozenge = 0.5$ and $\smile = 8$.

- A. $(\blacklozenge \times \smile) - \blacklozenge$
- B. $\blacklozenge + \blacklozenge + \smile$
- C. $\smile - \blacklozenge + \smile$



6a. True or false?

If $x = 10$, $y = 2$ and $z = 5$.

$$3x + y + z = 37$$



6b. True or false?

If $x = \frac{1}{3}$, $y = 1$ and $z = 10$.

$$(6x - y) + z = 27$$



7a. Tick the substitution used for this expression if the value is 75.

$$r \times (p \times q)$$

$p = 10, q = 2.5, r = 3$

$p = 10, q = 3, r = 2$



7b. Tick the substitution used for this expression if the value is 93.

$$4q - r$$

$q = 25, r = 7$

$q = 30, r = 25$



8a. Who is correct?

$a = 12$ and $b = 6$



Jacob

$$a \times b \text{ is } 12 \times 6 = 72$$



Lily

$$a \times b \text{ is } 12 \times 4 = 48$$



8b. Who is correct?

$a = 0.5$, $b = 10$ and $c = 9$



Tobias

$$2a \times (b \times c) \\ \text{is } 1 \times 90 = 90$$



Hafsa

$$2a \times (b \times c) \text{ is } 10 \times \\ 90 = 900$$

