Week 15

Friday 3rd July 2020

Year 6 Finding Pairs of values - Varied Fluency Watch the demonstration on finding pairs of values: https://www.youtube.com/watch?v=O-bQyDTtPz4

Substitution

Substitution

1a. Match the expressions to their values.

If
$$= 2$$
 and $= 10$.



1b. Match the expressions to their values.

If
$$= 5$$
 and $= 25$.



6 VF

20



2a. True or false?

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

$$2a + b = 22$$



2b. True or false?

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

$$2b - 2a = 16$$

3b. Tick the substitution used for this



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

$$a + 2b$$

$$a = 100, b = 25$$



$$a = 25$$
, $b = 100$

a – 2b

expression if the value is 100.

$$a = 200, b = 50$$

$$a = 50$$
, $b = 200$





4a. Who is correct?

$$a = 20, b = 4$$



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

is $26 \times 10 = 260$

Mo





a = 5, b = 100

4b. Who is correct?



Euan





Mia

6 VF

Substitution

Substitution

5a. Match the expressions to their values.

If
$$\bigstar = 5$$
 and $\bigcirc = 2$.



5b. Match the expressions to their values.

If
$$= 0.5$$
 and $= 8$.

3.5



6 VF

6b. True or false?

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

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

7b. Tick the substitution used for this

expression if the value is 93.



6a. True or false?

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

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



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

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

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

4q - r

$$q = 25, r = 7$$

$$q = 30, r = 25$$





8a. Who is correct?

$$a = 12$$
 and $b = 6$



 $a \times b = 12 \times 6 = 72$

Jacob



 $a \times b = 12 \times 4 = 48$



8b. Who is correct?

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



2a x (b x c) is $1 \times 90 = 90$

Tobias



2a x (b x c) is 10 x 90 = 900



Substitution

Substitution

9a. Match the expressions to their values.

If
$$= 0.25$$
 and $= 0.5$.

9b. Match the expressions to their values.

If
$$=\frac{1}{6}$$
 and $= 2.7$.



33.7



6 VF

GD

10a. True or false?

If
$$c = 5.1$$
, $d = 0.5$ and $e = 5$.

$$(3c + 2d) - 4e = 3.7$$

10b. True or false?

If
$$c = \frac{1}{12}$$
, $d = 100$ and $e = 7.9$.

$$(12c \div d) + e = 7.91$$



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6 VF

GD

6 V/

11a. Tick the substitution used for this expression if the value is 54.6.

$$(a \div c) + 5b$$

$$a = 2.5$$
, $b = 10$, $c = 2$

expression if the value is 176.

11b. Tick the substitution used for this

$$(a - 5b) \times c$$

$$a = 25$$
, $b = 0.6$, $c = 8$

$$a = 30$$
, $b = 0.8$, $c = 9$



6 VF



12a. Who is correct?

$$a = 1.25$$
, $b = 100$ and $c = 9$

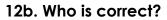


Jack



lvy

6 VF



$$a = 0.2$$
, $b = 25$ and $c = 10$



$$5a \times (3b - c)$$

is $2 \times 15 = 30$

Will





Lucy

6 V