

LO: to substitute

I
do

Substitution

In Algebra "Substitution" means putting numbers where the letters are:

	When we have:	$x - 2$
	And we know that $x=6$...	
	... then we can "substitute" 6 for x:	$6 - 2 = 4$

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x	$5x$	$5x - 1$
2		
10		
12		
	25	
		34
		99

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Substitute the following to work out the values of the expressions.

$$w = 3 \quad x = 5 \quad y = 2.5$$

- $w + 10$
- $w + x$
- $y - w$

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If a = 1, b = 2, c = 3, and so on...

Substitute numerical values into the following expressions to give an output.

Use the same code to give each output a letter and reveal the phrase.

3c - 7	3g	i ÷ 3	s - 2d	2b + 1	4e

z - 5e	2b + j	l ÷ 3

4e - 1	4d	9a - 4b	4f - 5d	5i - 8e

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If $a = 1$, $b = 2$, $c = 3$, and so on...

Substitute numerical values into the following expressions to give an output.

Use the same code to give each output a letter and reveal the phrase.

$3c - 7$	$3g$	$i \div 3$	$s - 2d$	$2b + 1$	$4e$

$z - 5e$	$2b + j$	$l \div 3$

$4e - 1$	$4d$	$9a - 4b$	$4f - 5d$	$5i - 8e$

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$$ab=24$$

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$$ab=24$$

LO: to substitute

we
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— Here are two formulae.

$$p = 2a + 5$$

$$c = 10 - p$$

Find the value of c when $a = 10$

$$x = 2c + 6$$

Whitney says,



$x = 12$ because c
must be equal to 3
because it's the 3rd
letter in the alphabet

Is Whitney correct?

Amir says,

When $c = 5$, $x = 31$



Amir is wrong.
Explain why.
What would the correct value of x be?

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Answers

Here are two formulae.

$$p = 2a + 5$$
$$c = 10 - p$$

Find the value of c when $a = 10$

$c = -15$

$x = 2c + 6$

Whitney says,



$x = 12$ because c must be equal to 3 because it's the 3rd letter in the alphabet

Is Whitney correct?

Amir says,

When $c = 5$, $x = 31$



Amir is wrong.
Explain why.
What would the correct value of x be?

No Whitney is incorrect. c could have any value.

Amir has put the 2 next to the 5 to make 25 instead of multiplying 2 by 5

The correct value of x would be 16

Attachments

Factor Bugs.pptx