

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:

$$6 - 2 = 4$$

**I
do**LO: to substitute

 = 10

 = 5

What would be the totals of these calculations?

 +  +  =

 +  +  +  =

LO: to substitute

I
do

$$n = 7$$

$$x = 2$$

$$2n + 17 =$$

$$4x - 8 =$$

$$3(n + 3) =$$

$$7(x - 15) =$$

$$10n - 10 =$$

$$4(6x - 5) =$$

LO: to substitute

we
do

$$p = 5$$

$$3p + 8 =$$

$$10(p + 3) =$$

$$8p \div 4 =$$

LO: to substituteyou
do

Complete in books.

If $a = 10$ and $b = 6$, work out the values of the expressions.

a) $a + b =$

d) $2a + b =$

b) $a - b =$

e) $3a - 17 =$

c) $2a =$

f) $2(a - b) =$

LO: to substitute

I
do

$$w = 10 \quad x = \frac{1}{2} \quad y = 2.5$$

$$3y$$

$$w + x + y$$

$$w + 10$$

$$12 + 8.8w$$

$$w - x - y$$

$$w + x$$

$$x \times (w + 2y)$$

$$y + y + y$$

$$wx$$

LO: to substitute

you
do

Complete in books.

$$w = 10 \quad x = \frac{1}{2} \quad y = 2.5$$

$$3y$$

$$w + x + y$$

$$w + 10$$

$$12 + 8.8w$$

$$w - x - y$$

$$w + x$$

$$x \times (w + 2y)$$

$$y + y + y$$

$$wx$$

LO: to substitute														we do	
— $n = 22$															
— What is $2n + 9$?															
<div></div>															
1 mark															
— $2q + 4 = 100$															
— Work out the value of q .															
$q =$ <div></div>															
1 mark															

LO: to substitute

we
do

— $2x + y = 20$

— when $x = 6$

$y =$

— when $y = 2$

$x =$

2 marks

LO: to substitute

you
do

$n = 22$

What is $2n + 9$?

1 mark

$2q + 4 = 100$

Work out the value of q .

$q =$

1 mark

$2x + y = 20$

when $x = 6$

$y =$

when $y = 2$

$x =$

2 marks

Copy out
the
question
and
complete in
books.

Pink highlighter ready.....let's mark!

we
do

$n = 22$

What is $2n + 9$?

53

1 mark

$2q + 4 = 100$

Work out the value of q .

$q = 48$

1 mark

$2x + y = 20$

when $x = 6$

$y = 8$

when $y = 2$

$x = 9$

2 marks

$w = 10$ $x = \frac{1}{2}$ $y = 2.5$

$3y$

$w + x + y$

$w + 10$

$12 + 8.8w$

$w - x - y$

$w + x$

$x \times (w + 2y)$

$y + y + y$

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Attachments

Factor Bugs.pptx