



# Substitution






1

 = 4	 = 5
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Use the given facts to work out the calculations.

a)  +  + 

b)  +  - 

c)  +  +  +  + 

2

 = 12	 = 5
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Use the given facts to work out the calculations.

a)  - 

b)  × 

c) Create your own calculation that will be equal to 22

3

If  $x = 5$ , write the values of the expressions in the corresponding grid.

The first one has been done for you.

$3x$	$x^2$	$2x - 5$
$4x + 2$	$\frac{x}{2}$	$2(x + 1)$
$7x$	$x + 9$	$x - 7$

15		

4

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)  $2a =$

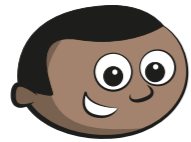
f)  $2(a - b) =$

5

If  $m = \frac{4}{5}$  and  $k = 0.1$ , work out the value of  $m + 2k$



6



Mo

It does not matter what  $p$  and  $q$  are,  $p + q$  and  $q + p$  will always give the same answer.

Do you agree with Mo? \_\_\_\_\_

Explain your answer.

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7

$$m = 7 \quad n = 5$$

Write  $>$ ,  $<$  or  $=$  to compare the expressions.

a)  $2m$  ○  $10$

b)  $n - 1$  ○  $5$

c)  $2n + m$  ○  $2m + n$

d)  $7n$  ○  $5m$

8

$$a = 10$$

Write the expressions in order, starting with the smallest value.

$$5a$$

$$a + 5$$

$$\frac{a}{5}$$

$$a^2$$





9

$$a = 15$$

Write three different algebraic expressions that give a value of 40

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

10

Complete the table.

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

