

Substitution

1

 = 4  = 5

Use the given facts to work out the calculations.

a)  +  + 

b)  +  - 

c)  +  +  +  + 

2

 = 12  = 5

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.

7

$m = 7$ $n = 5$

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

a) $2m$ $\bigcirc$ 10

b) $n - 1$ $\bigcirc$ 5

c) $2n + m$ $\bigcirc$ $2m + n$

d) $7n$ $\bigcirc$ $5m$

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