



1) a) i) 16	ii) -5	3) $3f + z$	10.25
b) 		$10c + f$	8
2) a) $b + 9$	11.5	$4z - f$	2
$c - b$	9.5	$c + z + 0.25$	2
ac	72	$cf + zf$	5.25
$a + c + b$	20.5		
$b - 3$	-0.5		
b) a or 6			




1) a) *As we do not know the value of b in this formula, we have no way of knowing if the value of c is 4. For example, if $b = 2$, $c = 2 \times 2$. This means c now equals 4. However, if $b = 3$, $c = 2 \times 3$. This means c now equals 6, not 4.*

b) *This statement is correct. Although we do not know the exact values of b or c, we do know that 2 lots of b will give us c. If we apply the inverse operation, we can see that b must have a value that is half that of c.*

2) a) *This is false.* $(8 \times 3) + 9 = 33$

b) *This is true.* $(10 \times 1.5) + 20 = 35$

c) *This is false.* $4 \times 2.5 = 10$
 $2 \times 2.25 = 4.5$
 $10 + 4.5 = 14.5$



1) *A variety of answers are possible, for example:*

$a = 4, b = 3, x = 9, z = 12, c = 24$

$a = 8, b = 4, x = 16, z = 24, c = 40$

2) *A variety of answers are possible, for example:*

$9 + 5 + 4 = 18$

$9 + 13 + 8 = 30$

$25 + 3 + 8 = 36$

$25 + 5 + 36 = 66$

