CHANGING SUBJECT OF A FORMULA

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.	$x + 5 = 12$	$x = 7$	2.	$y - 3 = 8$	$y = 11$
3.	$2a = 16$	$a = 8$	4.	$b/4 = 3$	$b = 12$
5.	$3c + 2 = 14$	$c = 4$	6.	$4d - 5 = 15$	$d = 5$
7.	$e/2 + 3 = 7$	$e = 8$	8.	$2f - 3 = 5f + 6$	$f = -3$
9.	$g + 4 = 2g - 1$	$g = 5$	10.	$3h/2 = 9$	$h = 6$
11.	$2i + 3 = 4i - 7$	$i = 5$	12.	$j/3 - 2 = 4$	$j = 18$
13.	$5k - 3 = 2k + 9$	$k = 4$	14.	$3m/4 + 2 = 8$	$m = 8$
15.	$2n + 5 = 3n - 2$	$n = 7$	16.	$p/2 - 3 = p/4 + 1$	$p = 16$

MASTER QUESTIONS

M1.	The formula for the area of a triangle is $A = (bh)/2$. Make h the subject.	$h = 2A/b$
M2.	The cost C of hiring a car is £25 per day plus 15p per mile. Write a formula for C in terms of d (days) and m (miles), then make m the subject.	$m = (C - 25d)/0.15$

M3. The perimeter P of a rectangle is given by $P = 2(l + w)$. Make w the subject.

$w = (P - 2l)/2$

M4. A taxi charges £3 flag fall plus £1.50 per kilometre. Write a formula for the total cost T in terms of distance d, then make d the subject.

$d = (T - 3)/1.5$