CHANGING SUBJECT OF A FORMULA

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

MAIN QUESTIONS

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

MASTER QUESTIONS

M1. The formula for the area of a triangle is $A = (bh)/2$. Make h the subject.

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.

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

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.