Step 5 : Expand and multiply single brackets

You must show your working out!

1) $3(5a+2)+4(2a+3)$

$15a+6+8a+12 = 23a+18$

2) $3(5a-2)-4(2a-3)$

$15a-6-8a+12$

$7a+6$

Step 6 : Expand double brackets

You must show your working out!

$(x+4)(x+3)$

$x^2+7x+12$

$(x-3)(x-4)$

$x^2-7x+12$

$(x+3)^2$

x^2+6x+9

$(a-b)(a+b)$

a^2-b^2

Step 7 : Solve equations with brackets

You must show your working out!

1) $4(a+4) = 60$

$a+4 = 15$

$a = 11$

2) $10 = 5(b+1)$

$2 = b+1$

$b = 1$

3) $3(x+2.7) = 4.5$

$x+2.7 = 1.5$

$x = -1.2$

4) $6(e-1)+2e = 10$

$6e-6+2e = 10$

$8e = 16$

$e = 2$

Step 8 Form & solve equations with brackets

I think of a number. I add on 6. I double my answer. I have 18. What was my original number?

$2(x+6) = 18$

$x+6 = 9$

$x = 3$