Show the line where you do the same thing to both sides, and check every answer.

1 Solve each equation.

(a) $3(x+2)=15$ (1)

(b) $2(y+5)=16$ (1)

(c) $4(n+1)=20$ (1)

(d) $5(m+3)=40$ (1)

(4 marks)

2 Solve $6(x+4)=42$ **twice**.

(a) First by expanding the bracket (2)

(b) Then by dividing both sides by 6 first (2)

(c) Which of the two was shorter, and why? (2)

(6 marks)

3 Solve each equation. Take care with the subtraction.

(a) $4(y-3)=20$ (1)

(b) $3(a-5)=12$ (1)

(c) $2(m-7)=18$ (1)

(d) $5(k-2)=35$ (1)

(4 marks)

4 Write an equation for each situation and solve it. **Say what your letter stands for.**

(a) I think of a number, add 7, and the answer is 19. What was the number? (2)

(b) I think of a number, multiply it by 4, and the answer is 52. What was the number? (2)

(c) I think of a number, double it and add 5, and the answer is 23. What was the number? (2)

(6 marks)

5 Solve each equation.

(a) $2(3x+1)=26$ (1)

(b) $3(2n-4)=18$ (1)

(c) $4(2m+5)=44$ (1)

(3 marks)