

SOLVING EQUATIONS WITH THE UNKNOWN ON BOTH SIDES WITH BRACKETS

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

MAIN QUESTIONS

1. $2(x + 3) = 4x - 2$

2. $3(2x - 1) = 5x + 7$

3. $4(x - 2) = 2(3x + 1)$

4. $5(2x + 3) = 3(4x - 1)$

5. $2(3x - 4) + 5 = 4x + 7$

6. $3(2x + 1) - 4 = 5(x - 2) + 3$

7. $4(2x - 3) + 2 = 3(3x + 1) - 5$

8. $2(3x + 4) - 3(2x - 1) = 5x - 2$

9. $5(2x - 3) + 4(3x + 1) = 2(7x - 4)$

10. $3(4x - 2) - 2(3x + 5) = 4(x - 1) + 3$

11. $2(3x - 4) + 3(2x + 1) = 4(3x - 2) - (x + 5)$

12. $4(2x - 3) - 3(3x + 2) = 2(5x - 1) - (4x + 7)$

MASTER QUESTIONS



M1. A rectangle's length is 3cm more than twice its width. If the perimeter is 36cm, find the dimensions.

M2. The sum of three consecutive even numbers is 54. Find the numbers.

- M3.** A number is multiplied by 4 and then 5 is added. The result is the same as when the number is multiplied by 3 and then 8 is subtracted. Find the number.
- M4.** The area of a rectangle is 60cm^2 . If the length is 4cm more than the width, find the dimensions.
- M5.** A father is three times as old as his son. In 12 years, he will be twice as old. Find their current ages.