

# SOLVING TWO STEP EQUATIONS

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

## MAIN QUESTIONS

---

1.  $2x + 3 = 7$

2.  $4x - 1 = 15$

3.  $3x + 5 = 17$

4.  $5x - 2 = 18$

5.  $6x + 4 = 28$

6.  $7x - 3 = 25$

7.  $8x + 6 = 38$

8.  $9x - 5 = 31$

9.  $10x + 7 = 47$

10.  $11x - 8 = 36$

11.  $12x + 9 = 57$

12.  $13x - 10 = 42$

13.  $14x + 11 = 67$

14.  $15x - 12 = 48$

15.  $16x + 13 = 77$

16.  $17x - 14 = 54$

17.  $18x + 15 = 87$

18.  $19x - 16 = 60$

19.  $20x + 17 = 97$

20.  $21x - 18 = 66$

21.  $22x + 19 = 107$

22.  $23x - 20 = 72$

23.  $24x + 21 = 117$

24.  $25x - 22 = 78$

25.  $26x + 23 = 127$

26.  $27x - 24 = 84$

27.  $28x + 25 = 137$

28.  $29x - 26 = 90$

29.  $30x + 27 = 147$

30.  $31x - 28 = 96$

# MASTER QUESTIONS

---



- M1.** A rectangle has a length that is 3cm more than twice its width. If the perimeter is 30cm, find the dimensions.
- M2.** A number multiplied by 5 and then decreased by 7 gives 38. Find the number.
- M3.** Sarah thinks of a number, multiplies it by 4 and subtracts 3. The result is 25. What is her number?
- M4.** The sum of three consecutive even numbers is 42. Find the numbers.
- M5.** A book costs £3 more than twice the price of a pen. If the book costs £15, how much does the pen cost?
- M6.** A train travels at a constant speed. In 5 hours it covers 15km more than twice the distance it covers in 2 hours. Find its speed.
- M7.** The area of a rectangle is  $48\text{cm}^2$ . If the length is 4cm more than twice the width, find the dimensions.
- M8.** A father is 4 years more than twice his son's age. In 5 years, the sum of their ages will be 59. Find their current ages.
- M9.** A shop sells apples in bags. Each bag contains 3 more than twice the number of apples in a small box. If a bag contains 17 apples, how many are in a small box?
- M10.** The perimeter of a triangle is 45cm. The second side is 3cm longer than twice the first side, and the third side is 6cm longer than the first side. Find the length of each side.