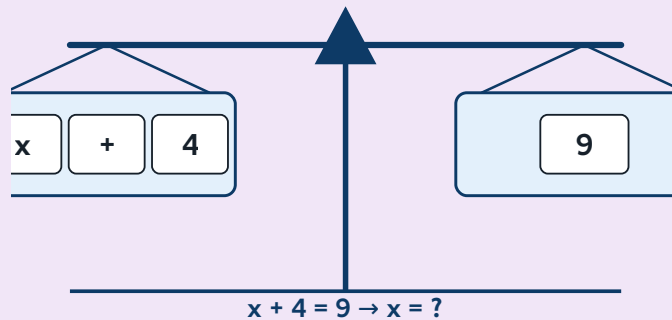


LEVELLING $x + 4 = 9$ ON THE BEAM

- 1 Write the equation $x + 4 = 9$ on the top line.
- 2 The right pan holds 9 so slide x until the left pan also holds 9.
- 3 x becomes 5 because $5 + 4$ makes 9.
- 4 Both pans now match and the beam sits level.

WARM-UP

Use the balance scales to make both sides equal for each equation.



1. Put $x + 3$ on the left pan and 7 on the right pan then mark the x that levels the beam
2. Put $x + 2$ on the left pan and 8 on the right pan then mark the x that levels the beam
3. Put $3x$ on the left pan and 12 on the right pan then mark the x that levels the beam

PRACTICE

- 1 In a board game your score x plus 3 bonus points equals 7. What is x ?
- 2 At playtime x marbles plus 4 more make a total of 9. Find x .
- 3 Three equal teams of x players make 12 children ready for a playground game. Find x .

ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. The equals sign means the left side has the same value as the right side
- b. $x + 3 = 7$ means you write 7 next to the equals sign as the answer
- c. When a balance beam sits level the two pans hold equal amounts
- d. In $3x = 12$ the letter x stands for 12