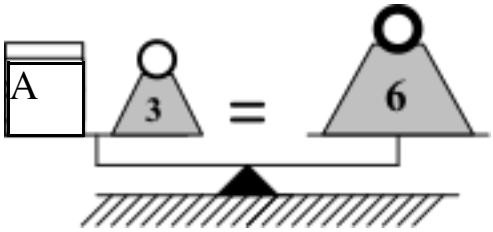
Balancing scales

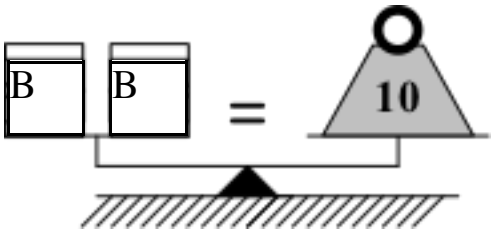
Example 1



Both sides are equal, so if the right side is equal to 6, then the left must also equal 6.

A + 3 = 6
Take away 3 from both sides, that leaves A = 3 also.

Example 2



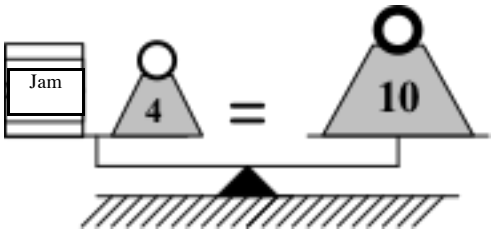
Both sides are equal, so if the right side is equal to 10, then the left must also equal 10.

B + B = 10
Since the two tins have the same letter they weigh the same. So one tin must equal half of 10 (B = 5).

This can also be written as:
2B = 10
B = 10 ÷ 2
B = 5

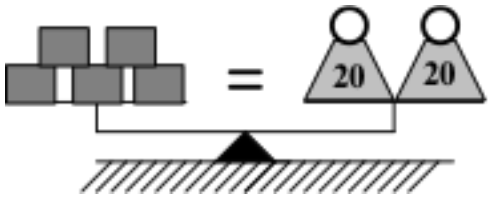
Practice exercise

(a)



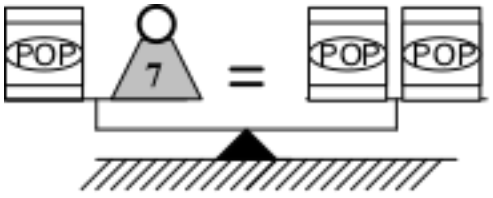
Weight of one tin = _____ kg

(b)



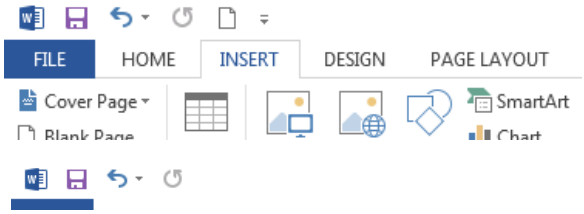
Weight of one box = _____ kg

(c)



Weight of one tin = _____ kg

(d)



Weight of one box = _____ kg