Three rabbits

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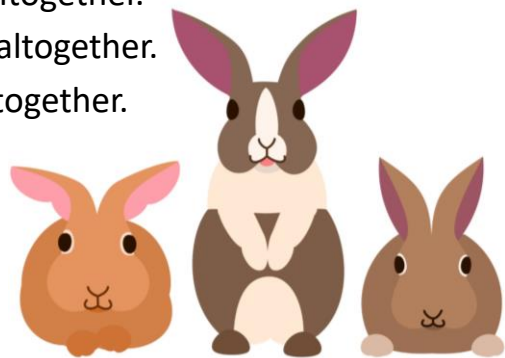
Three rabbits

Bill has three rabbits.

Each rabbit is a different weight.

The first and second rabbits weigh 6kg altogether.

The second and third rabbits weigh 9kg altogether.

The third and first rabbits weigh 11kg altogether.

What is the weight of each rabbit?

Three rabbits

R1 + R2 = 6kg
R2 + R3 = 9kg
R3 + R1 = 11kg

or

a + b = 6kg
b + c = 9kg
c + a = 11kg

Whatever way you decide to use the information the table lists twice as many rabbits as you need. Remember Bill only has three rabbits.

Three rabbits

The total of the three combined weights is 26kg but remember this is twice as much as you need. You will have to divide the 26kg by 2, effectively halving the amount to give you the total of three rabbits.

Three rabbits, rabbit 1 + rabbit 2 + rabbit 3 will equal 13kg.

a + b = 6kg therefore *c* must be 13kg – 6kg = 7kg

b + c = 9kg therefore *a* must be 13kg – 9kg = 4kg

c + a = 11kg therefore *b* must be 13kg – 11kg = 2kg