

# Odd Ball! Solution



**Yes you can!** The solution is to split the 9 balls into three groups of three balls. In the diagram above, the balls have been numbered from 1 to 9. The green ball indicates the competition ball.

Measure the first set of three against the second set of three. If the scales balance (as above), then you know the light ball is in the remaining set of three. If one side goes down, then you know that in that set of three, one of the balls is the light one.

What you need to do then is select any two of the set of three that you know contain the light ball (for example balls 7 and 8). You can then weigh these against each other. If one side of the scales goes down, then you know you have found the lightest ball (ball 8 will go down).

If the two balls balance, then you know that the ball you didn't measure is the light one!