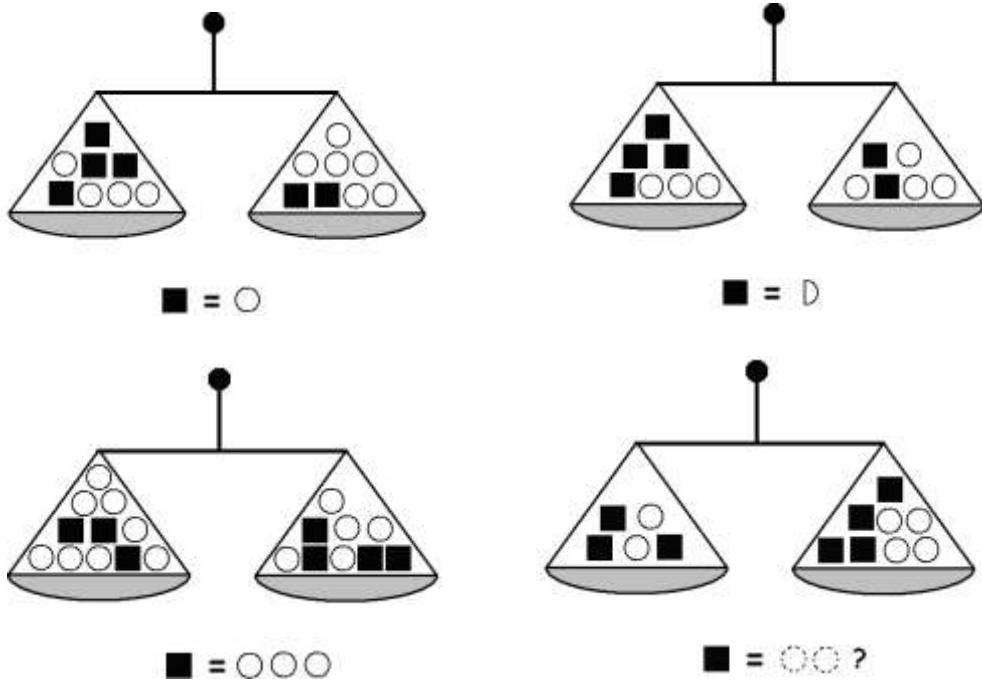


WITHOUT WORDS

Mathematical Puzzles to Confound and Delight

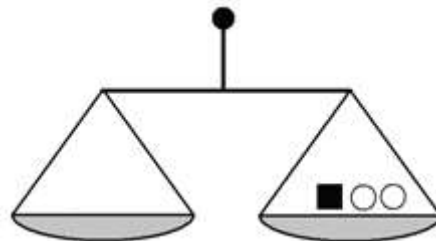


WW 9: SOLUTION



If the white balls each weigh one pound, then in the first diagram the black box must weigh one pound too in order for the scales to balance. It weighs half a pound in the second diagram, and three pounds in the third.

In the fourth diagram, removing three black boxes and two white balls from each side (and this keeps the scale balanced) yields the picture:



We see that the black box and two white balls, together, weigh nothing! This means the box must weigh two anti-pounds! (Maybe it is full of helium and wants to float?)