

If the cone weighs 6 kg, what are the weights of the cube and the cylinder?

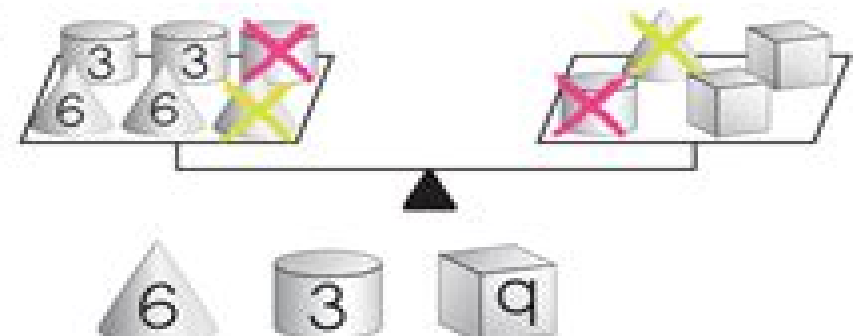


## Solution

Begin by looking at the first scale. We can simplify the scale by eliminating like shapes that are on both sides, in this case the cube. By removing a cube from each side, the scale is still balanced. Now you can see that one cone (6kg) is equal to 2 cylinders. This means that one cylinder is 3 kg. Now you know the weight of the cylinder, so you can apply that information to the second scale.



Cross out all like shapes that are on both sides of the scale. Then write down the weights of the cylinder and cone and compute the weight of the right side of the scale:  $6 + 6 + 3 + 3 = 18$  kg. This means that two cubes weight 18 kg, so one cube weighs 9 kg.



# Industrial Math Word Problems

**DJ Losen**



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