

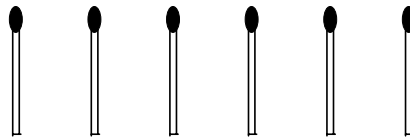


# Neurological Nasties XXXIV

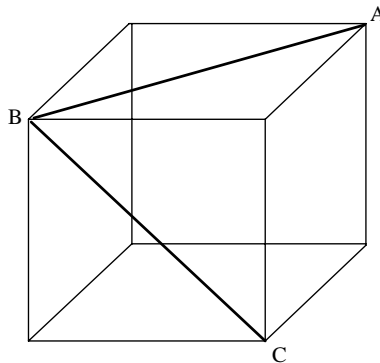
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1. See if you can arrange six matches to form only four triangles.



2. Consider the cube drawn below.  $AB$  and  $BC$  are two diagonals drawn on their respective faces. Determine the size of the angle  $ABC$ .



3. Veronika Vertigo decided to grab a ride on a merry-go-round. While she was spinning around, she noticed that one third of the number of kids riding ahead of her added to the three quarters of those riding behind her gave the correct number of children on the merry-go-round. How many children were riding on the merry-go-round?

