

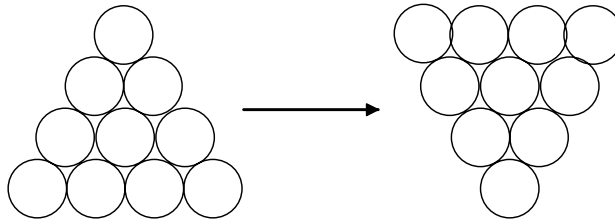


Neurological Nasties XVI

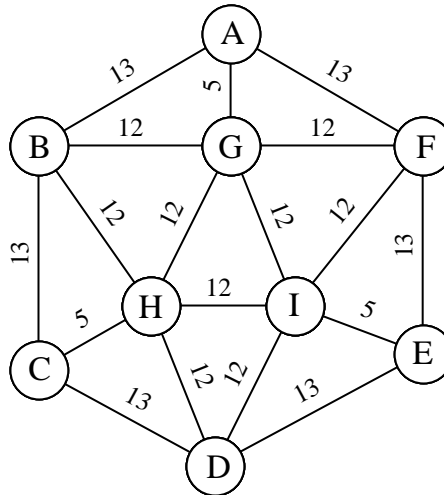
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1. A triangle of coins is made as shown below. What is the smallest number of coins which have to be moved to turn the triangle pattern upside down ?



2. The diagram below shows the road network connecting nine towns. The numbers refer to the distances along the roads in kilometers. A road worker wants to inspect *all* the roads by car. What is the shortest route he can take if he has to return to A ?



3. Consider the shaded region below. Show how, with two straight cuts, this shape can be divided into three pieces which can be rearranged to make a square.

