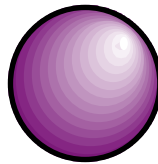
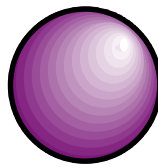
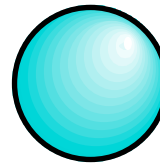
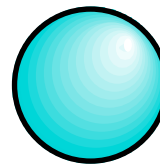


# Six Of The Best

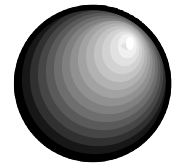
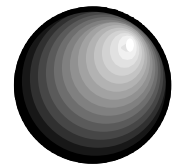
Arrange these six marbles (two red, two green, two blue) so that each one touches all four marbles of a different colour.



RED



GREEN

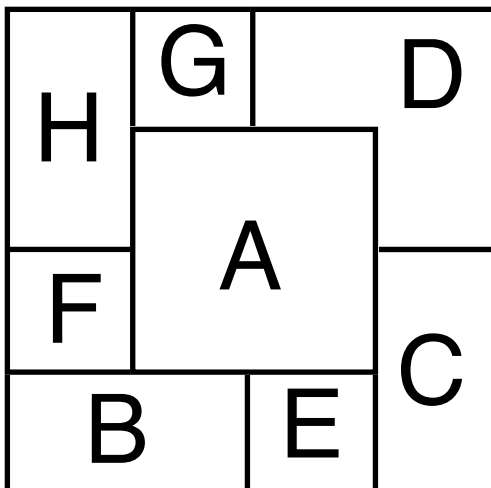


BLUE

What is the 999, 999th digit after the decimal point in  $\pi$  ?

What two 4-digit numbers multiply together to give 76875923 ?

You have two straight lengths of wood. Explain how you must cut one of them so that one of the three pieces is the average length of the other two.



Eight squares of paper, all exactly the same size, have been placed on top of each other so that they overlap as shown. In what order were the sheets placed?

Write down the next line in the following pattern:

1  
 11  
 21  
 1211  
 111221  
 312211  
 13112221  
 1113213211  
 31131211131221  
 .....?