

# MARIN MATH CIRCLE

... for students who like challenging math problems  
NEW THIS YEAR -- A HIGH SCHOOL GROUP!

A military base has a number of identical hoverplanes. Each hoverplane can carry enough fuel to fly exactly halfway around the planet. What is the minimum number of planes that are needed so that one plane is able to get all the way around the planet and all assisting planes return safely to base? (Hoverplanes do not use any fuel while hovering stationary in the air, and hoverplanes can transfer any amount of fuel between each other while in the air.)



How many pieces can you cut a watermelon into with 4 straight cuts? (You aren't allowed to rearrange pieces in between cuts.)

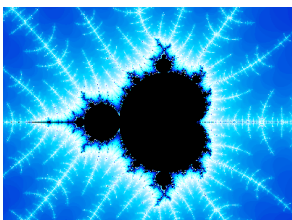


Wednesday evenings during the school year  
at Dominican University in San Rafael

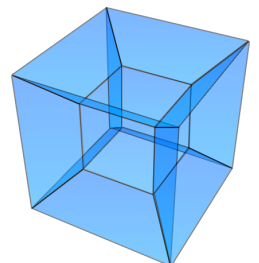
Elementary Circle – grades 3 – 4

Intermediate Circle – grades 5 – 8

Advanced Circle – grades ~9 – 12



Find out more at  
[www.marinmathcircle.org](http://www.marinmathcircle.org)  
or call 415-458-3770 ext. 5



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