



Problem of the Week

Problem C

Product Puzzle

Three cards are on a table. Each card has a letter on one side and a positive number on the other side. One card has an R on it, one card has a G on it, and one card has a B on it. The number side of each card is face down on the table. The following facts are known about the three concealed numbers:

- (i) The product of the number on the card with an R and the number on the card with a G is equal to the number on the card with a B.
- (ii) The product of the number on the card with a G and the number on the card with a B is 180.
- (iii) Five times the number on the card with a B is equal to the number on the card with a G.

Determine the product of the numbers on the three cards.

