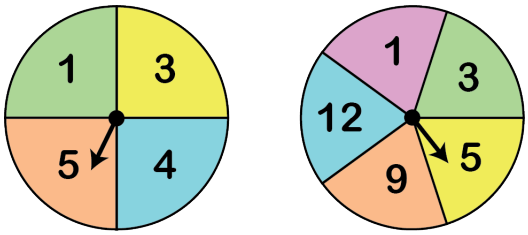
# Problem of the Week

## Problem C

## Spin to Win

Esa has created a game for his math fair using two spinners. One spinner is divided into four equal sections labeled 1, 3, 4, and 5. The other spinner is divided into five equal sections labeled 1, 3, 5, 9, and 12.




To play the game, a player spins each spinner once and then multiplies the two numbers the spinners land on. If this product is a perfect square, the player wins. What is the probability of winning the game?

NOTE: A square of any integer is called a *perfect square*. For example, the number 25 is a perfect square since it can be expressed as $5^2$ or $5 \times 5$.