5-26. The city has created a new contest to raise funds for a big Fourth of July fireworks celebration. People buy tickets and scratch off a special section on the ticket to reveal whether they have won a prize. One out of every five people who play get a free entry in a raffle. Two out of every fifteen people who play win a small cash prize.

a. If you buy a scratch-off ticket, is it more likely that you will win a free raffle ticket or a cash prize? Explain your answer.

b. What is the probability that you will win something (either a free raffle entry or a cash prize)?

c. What is the probability that you will win nothing at all? To justify your thinking, write an expression to find the complement of winning something.

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5-26. *La ciudad ha creado un nuevo concurso para recaudar fondos para una gran celebración de fuegos artificiales del 4 de julio. Las personas compran boletos y raspan una sección especial en el boleto para revelar si ganaron un premio. Una de cada cinco personas que juega consigue una entrada gratis en un sorteo. Dos de cada quince personas que juegan ganan un pequeño premio en metálico.*

a. Si compras un billete raspadito, ¿es más probable que ganes un billete gratis para una rifa o un premio en efectivo? Explica tu respuesta.

b. ¿Cuál es la probabilidad de que gane algo (ya sea una entrada gratis para la rifa o un premio en efectivo)?

C. ¿Cuál es la probabilidad de que no gane nada? Para justificar tu pensamiento, escribe una expresión para encontrar el complemento de ganar algo.