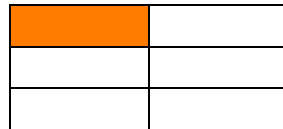


Solve each problem. Shade the rectangular region to represent your answer.

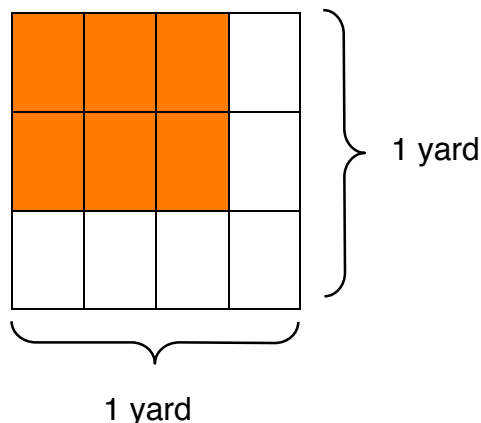
1. Gale bought a chocolate candy bar. He gave $\frac{1}{2}$ of the candy bar to his friend and ate $\frac{1}{3}$ of what was left. How much of the whole candy bar did he eat?

Cale gave $\frac{1}{2}$, or three parts to his friend. He ate $\frac{1}{3}$, or one of the three remaining parts. He ate $\frac{1}{3}$ of $\frac{1}{2}$ of the candy bar. The rectangle represents the whole candy bar. The shaded region represents the amount of the candy bar that Cale eats. The shaded region measures $\frac{1}{3}$ by $\frac{1}{2}$. There is one shaded part out of six total parts, so the shaded region equals $\frac{1}{6}$ of the entire candy bar. When you multiply the numerators, 1×1 , you get the number of shaded parts. When you multiply the denominators, 3×2 , you get the total number of parts. Cale ate $\frac{1}{6}$ of the whole candy bar.



2. Jayden cut fabric into rectangles that measured $\frac{2}{3}$ yd. by $\frac{3}{4}$ yd. What is the area of each rectangle in square yards?

You want to find the area of a rectangle that measures $\frac{2}{3}$ yd. by $\frac{3}{4}$ yd. The square represents one square yard. The shaded region represents the amount of fabric that Jayden cut. The shaded region is equal to $\frac{6}{12}$ of the whole square yard of fabric. When you multiply the numerators, 2×3 , you get the number of shaded parts. When you multiply the denominators, 3×4 , you get the total number of parts. The area of the rectangle that Jayden cut out is $\frac{6}{12}$, or $\frac{1}{2}$ sq. yd.





3. Our jar of coins is $\frac{2}{3}$ full. My sister knocks the jar over and spills $\frac{3}{4}$ of the coins in the jar onto the floor. How full is our jar of coins now?

The square represents the jar. The jar is $\frac{2}{3}$ full, which is eight parts of the square. She spills $\frac{3}{4}$ of the 8 parts, so $\frac{1}{4}$ of the 8 parts, or two parts, remain in the jar. You want to find $\frac{1}{4}$ of $\frac{2}{3}$ of the jar because you want to know the amount of coins left in the jar. The shaded region measures $\frac{1}{4}$ by $\frac{2}{3}$ and represents the amount of coins left in the jar. There are two shaded parts out of 12 total parts, so the shaded region equals $\frac{2}{12}$ of the jar. When you multiply the numerators, 1×2 , you get the number of shaded parts. When you multiply the denominators, 3×4 , you get the total number of parts. The jar is now $\frac{2}{12}$, or $\frac{1}{6}$ full.

