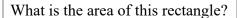


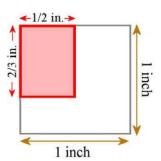
Fraction Multiplication and Area





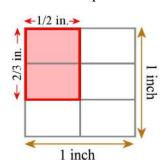
Notice, its side lengths are *fractional* (1/2 inch and 2/3 inch).

Let's extend its sides and draw a square inch around it.



Surely the area of our rectangle is less than a half square inch. But how much is the area exactly?

To solve this problem, let's draw a grid inside our square inch:



Now it is easy to see that the area of the colored rectangle is exactly 2/6 or 1/3 of the square inch.

(Why? Because the square inch is divided into 6 equal parts, and our rectangle covers two of them).

Notice that we get the same result (1/3 square inch) if we *multiply* the side lengths, using fraction multiplication:

$$\frac{2}{3}$$
 in $\times \frac{1}{2}$ in $= \frac{2}{6}$ in² $= \frac{1}{3}$ in²

1. Each picture shows some kind of square unit, and a colored rectangle. Figure out the side lengths and the area of the rectangle from the picture.

