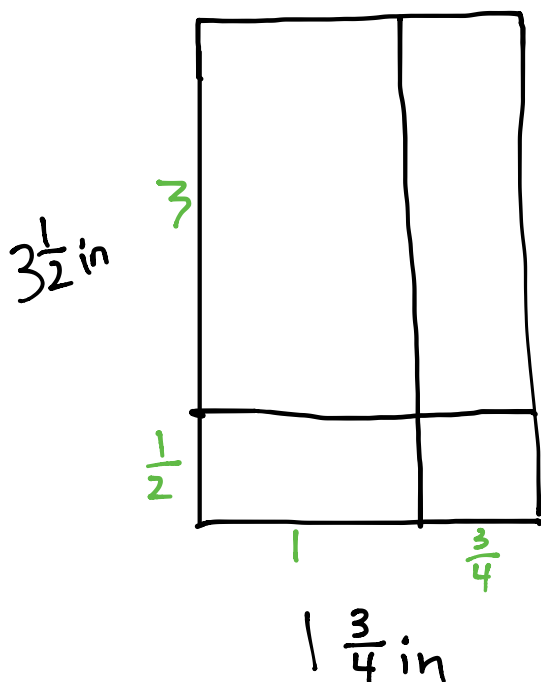


Name _____

Date _____

Wheat grass is grown in planters that are $3\frac{1}{2}$ inch by $1\frac{3}{4}$ inch. If there is a 6×6 array of these planters with no space between them, what is the area covered by the planters?



$$\begin{aligned}
 & 3\frac{1}{2} \times 1\frac{3}{4} \\
 &= (3 \times 1) + (3 \times \frac{3}{4}) + (1 \times \frac{1}{2}) + (\frac{1}{2} \times \frac{3}{4}) \\
 &= 3 + \frac{9}{4} + \frac{1}{2} + \frac{3}{8} \\
 &= 3 + 2\frac{1}{4} + \frac{1}{2} + \frac{3}{8} \\
 &= 5 + \frac{2}{8} + \frac{4}{8} + \frac{3}{8} \\
 &= 5\frac{9}{8} \\
 &= 6\frac{1}{8} \text{ in}^2 \quad [1 \text{ planter}]
 \end{aligned}$$

$$\begin{aligned}
 36 \times 6\frac{1}{8} &= 216 + \frac{36}{8} \\
 &= 216 + 4\frac{4}{8} \\
 &= 220\frac{1}{2} \text{ in}^2
 \end{aligned}$$

The total area is $220\frac{1}{2} \text{ in}^2$.