Chapter 4 Rational Numbers

Lesson 4-5 Add and Subtract Mixed Numbers Page 303

find $11\frac{3}{4} - 4\frac{1}{3}$.

Rename using the LCD of 4 and 3, 12.

$$11\frac{3}{4} - 4\frac{1}{3} = 11\frac{9}{12} - 4\frac{4}{12}$$
 Rename each fraction.
= $7\frac{5}{12}$ Subtract the whole numbers and then the fractions.

The length of Kasey's garden is $4\frac{5}{8}$ feet. Find the width of Kasey's garden if it is $2\frac{7}{8}$ feet shorter than the length.

Because the width is shorter than the length, subtract. Since $\frac{5}{8}$ is less than $\frac{7}{8}$, rename $4\frac{5}{8}$ as $3\frac{13}{8}$ before subtracting.

$$4\frac{5}{8} - 2\frac{7}{8} = 3\frac{13}{8} - 2\frac{7}{8}$$
 Rename each fraction.
= $1\frac{6}{8}$ or $1\frac{3}{4}$ Subtract the whole numbers and then the fractions.

So, the garden is $1\frac{3}{4}$ feet wide.