

Section 7.2 Math Link

This worksheet will help you with the Math Link on page 244.

Egyptian fractions use sums of unit fractions to write all other fractions.

A unit fraction has a numerator of ____.

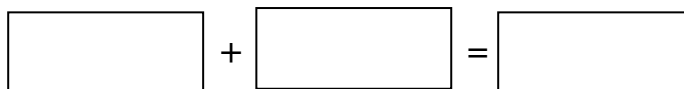
1. Add the unit fractions. Use diagrams to show your work.

Example:

$$\frac{1}{4} + \frac{1}{8} = \frac{3}{8}$$



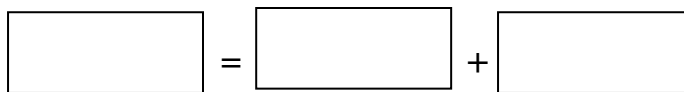
$$\frac{1}{3} + \frac{1}{9} = \underline{\hspace{2cm}}$$



2. Which sum is greater $\frac{1}{4} + \frac{1}{8}$ or $\frac{1}{3} + \frac{1}{9}$? ____ By how much? ____

3. How would ancient Egyptians have written $\frac{5}{12}$ as the sum of two unit fractions?

$$\frac{5}{12} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$



Hint: Try subtracting unit fractions from $\frac{5}{12}$ until you have an answer that is also a unit fraction.