## Sec 3.7 Dividing Mixed Numbers (Mixed Fractions)

## Investigation

Waffles are being served this year at Santa's Breakfast. Ms. Lo wants to share some round waffles with her students. Suppose she makes each portion ¾ of a waffle. How many portions will she get from 4 ½ waffles? Use fraction circles to solve the problem.

To divide mixed numbers, change the mixed numbers to _____ then divide as normal.

## Practice:

1. Find all the quotients using your short-cut algorithm.

a) $2\frac{1}{4} \div 1\frac{2}{5}$                  b) $3\frac{1}{4} \div 3\frac{1}{2}$                  c) $4\frac{1}{8} \div 4\frac{1}{8}$

2. Santa takes $8\frac{2}{3}$ hours to fill his sleigh with toys. He works for $3\frac{1}{2}$ hours each evening. How many evenings does it take him to fill his sleigh?