**Lesson 14: The Division Algorithm—Converting Decimal Division into Whole Number Division Using Fractions**

Problem Set

Convert decimal division expressions to fractional division expressions to create whole number divisors.

Estimate quotients. Convert decimal division expressions to fractional division expressions to create whole number divisors. Compute the quotients using the division algorithm. Check your work with a calculator and your estimates.

1. Norman purchased of his favorite mixture of dried fruits to use in a trail mix. The total cost was . How much does the fruit cost per pound?
2. Divide:
3. Daryl spent on each pound of trail mix. He spent a total of . How many pounds of trail mix did he purchase?
4. Mamie saved . This is of the amount she needs to save. How much money does Mamie need to save?
5. Kareem purchased several packs of gum to place in gift baskets for each. He spent a total of . How many packs of gum did he buy?
6. Jerod is making candles from beeswax. He has ounces of beeswax. If each candle uses ounces of beeswax, how many candles can he make? Will there be any wax left over?
7. There are cups of batter in the bowl. This represents of the entire amount of batter needed for a recipe. How many cups of batter are needed?
8. Divide:
9. Divide: