



## Problem of the Week

### Problem B

#### Let's Divvy These Up

- (a) At Yore Elementary School, each class has between 15 and 35 students. If there are 78 students in Grade 6, and all Grade 6 classes have the same number of students, how many Grade 6 classes are there?
- (b) At Hyz Elementary School, there is the same number of Grade 6 classes as at Yore, but there are 84 Grade 6 students. If all Grade 6 classes have the same number of students, how many students are in each Grade 6 class?
- (c) For each of the numbers in the first column of the table given below, first determine if it could be the total number of students in three very large classes of equal size, and then calculate the digit sum of the number. Do you notice any connection between these two things?

NOTE: The *digit sum* of a number is the sum of its digits. For example, the digit sum of 63 is  $6 + 3 = 9$ .

Number	Could be total?	Digit Sum
1008		
1023		
1741		
2238		
1759		
1902		

