



## Problem of the Week

### Problem A and Solution

### Theatre Trip

#### Problem

The Grade 3 and Grade 4 classes are going on a field trip to the theatre. There are 143 students, 6 teachers, and 16 parent volunteers that will be travelling by school bus to the theatre. If each bus is limited to 45 passengers, what is the fewest number of buses needed for the trip?

#### Solution

First we need to calculate how many people will be travelling in total.

There is a total of  $143 + 6 + 16 = 165$  people on the field trip.

Now we can make a table that shows how many people can be transported on buses that hold 45 people each:

Number of Buses	Number of People
1	45
2	90
3	135
4	180

From this table, we see that 3 buses will not hold enough people for the trip, but 4 buses will have enough room for everybody. Therefore, the fewest number of buses needed is 4.