



## Problem of the Week Problem A and Solution Zoo Field Trip

### Problem

The following list gives the fees at the POTW Children's Zoo.



Yesterday the POTW Children's Zoo had 24 visitors. One quarter of the visitors went to pet the llamas, one half of the visitors used the zip line, and 5 visitors had the zoo lunch. How much money did the POTW Children's Zoo make yesterday?

### Solution

We can determine the amount of money that the POTW Children's Zoo made yesterday by adding the total amounts for each type of fee.

Entry fees would be  $24 \times \$8 = \$192$ .

Since one quarter of 24 is  $24 \div 4 = 6$ , then the extra fees for petting the llamas would total  $6 \times \$5 = \$30$ .

Since one half of 24 is  $24 \div 2 = 12$ , then the extra fees for the zip line would total  $12 \times \$4 = \$48$ .

The money made for the 5 lunches would total  $5 \times \$7 = \$35$ .

Altogether, the POTW Children's Zoo made  $\$192 + \$30 + \$48 + \$35 = \$305$  yesterday.