# Problem of the Week <br> Problem A <br> Graduation Ceremony 

At Emily Carr Elementary School, the Grade 8 students are graduating and are having a ceremony. Tickets are given to the graduates and the school staff for free. Parents and other students need to buy tickets.

Staff set up 6 rows of 24 chairs in the gym. The diagram below shows the arrangement.


We know that

- $\frac{1}{3}$ of the chairs are filled with adults (parents/relatives) who bought tickets for $\$ 4$ each,
- $\frac{1}{4}$ of the chairs are filled with other students who bought tickets for $\$ 2$ each,
- $\frac{1}{6}$ of the chairs are filled with staff of the school, and
- the remaining chairs are filled with the graduates.
(a) How many graduates are at the ceremony?
(b) How much money was collected from ticket sales?


Theme Number Sense

