



## Problem of the Week

### Problem E

#### Mathletes in Action

Four mathletes, Jen, John, JP and Judith, competed in the finals of the CEMC Mental Math Bowl. Prizes were awarded for the top three competitors as follows: first place received an anniversary Math Faculty Pink Tie, second place received a book of Brain Teasers, and third place received an “I Love Math” T-shirt.

Three staff members of the CEMC predicted how the prizes would be awarded.

- Dean predicted that Judith would win the pink tie, John would win the book and JP would win the T-shirt.
- Ian predicted that Jen would win the pink tie, Judith would win the book and JP would win the T-shirt.
- Sandy predicted that John would win the pink tie, Jen would win the book and Judith would win the T-shirt.

It turns out that each staff member predicted exactly one prize winner correctly.

Determine precisely how the prizes were awarded.

*Sample Question  
from the CEMC  
Mental Math Bowl*

$$\begin{array}{r} 936 \\ \times 11 \\ \hline ??? \end{array}$$

