



Problem of the Week

Problem C

Music Ensemble

Three students, Kaila, Octavia, and Sophia, formed a trio for a local music competition and won a cash award. They decided to split the award as follows:

- Kaila received \$100 plus $\frac{1}{5}$ of what then remained;
- Octavia then received \$160 plus $\frac{1}{4}$ of what then remained; and
- Sophia then received the rest, which was \$180.

How much was the original cash award? Which student received the most money?

