



Problem of the Week

Problem C

Award for Innovation

Three co-workers, Arden, Dale and Ryan, received an innovation award for their ground breaking work on battery technology. They have decided to split the award as follows:

- (i) Arden receives \$10 000 plus $\frac{1}{5}$ of what then remains;
- (ii) Dale then receives \$16 000 plus $\frac{1}{4}$ of what then remains; and
- (iii) Ryan then receives the rest, which is \$18 000.

How much is the original monetary award? Which co-worker receives the most money?

