



Problem of the Week

Problem B

Loose Change

Macklin has ten coins in his pocket worth a total of \$2.30. Only one of Macklin's coins is a nickel (worth \$0.05), and the other nine are some combination of dimes (worth \$0.10), quarters (worth \$0.25), and loonies (worth \$1.00), with at least one of each type of coin.

- (a) How many dimes does Macklin have?
- (b) Is it possible that Macklin could have two nickels, not one? Explain your reasoning.

