

Problem of the Week Problem B A Pocketful of Coins

Dakarai has a some Canadian coins in his pocket: one nickel (worth \$0.05), one dime (worth \$0.10), one quarter (worth \$0.25), one loonie (worth \$1.00), and one toonie (worth \$2.00).











- (a) Suppose he reaches into his pocket and pulls out one coin at random.
 - (i) What is the probability that he will pull out
 - a nickel?
 - a quarter?
 - a toonie?
 - (ii) What is the probability that the total value of the coins remaining in his pocket is
 - less than \$1.00?
 - greater than \$1.35?
 - less than \$2.00?
- (b) Suppose Dakarai reaches into his pocket and pulls out two coins at random. Which is greater, the probability that the coins in his hand have a value of \$0.35, or the probability that the coins in his hand have a value of \$3.00?