Suppose sums of money equivalent to whole numbers of nickels are to be paid and the only coins used for payment are nickels and dimes, then if "n" represents a nickel and "d" represents a dime, then we can represent the ways in which sums of money may be paid out schematically.

Amount to be Paid	Possible Arrangements of Coins Making Payment	Number of Arrangements
5¢		
10¢		
15¢	nnn, nd, dn	3
20¢		
25¢		
30¢		
35¢		

Let A_n represent the number of arrangements of nickels and dimes we can use to pay out an amount equal to 5n cents.

$A_1 =$

$A_2 =$

$A_3 =$

$A_4 =$

$A_5 =$

$A_6 =$

$A_7 =$

In general, $A_n =$