NCC 2014
Part C

Student name: _____

1. The sum of 11 consecutive odd numbers is 121. What is the average of those 11 numbers?

Answer: _____

2. Calculate $99 - 97 + 95 - 93 + \cdots + 7 - 5 + 3 - 1$.

Answer: _____

3. Here are the prices for the neighbourhood burger restaurant:

Burger	$5
Fries	$3
Soda	$2
Burger + Fries	$7
Fries + Soda	$4
Soda + Burger	$6
Burger + Fries + Soda	$9

What is the cheapest price to buy 2 Burgers, 2 Fries, and 2 Sodas for the family?

Answer: _____

4. There are 25 seats in a row. At **most** how many people can sit in the row so that no two people are sitting next to each other?

Answer: _____

5. There are 53 students in a class. 33 students took the Math quiz and 25 students took the English quiz. 6 students didn't take either quiz. How many students took both the Math quiz and the English quiz?

Answer: _____

6. How many different 3-digit numbers can be formed using only the digits 5, 6, 7, and 8? (You are allowed to use a digit more than once.)

Answer: _____

7. Factory A and Factory B manufactured a total of 213 bicycles over 3 days. Factory A manufactured the same number of bicycles every day over the 3 days, and Factory B also manufactured the same number of bicycles every day over the 3 days. Factory A manufactured 5 more bicycles than Factory B every day. How many bicycles did Factory B manufacture every day?

Answer: _____

8. Peter's watch is 7 minutes slow, but he thinks that it is 5 minutes ahead. Sophie's watch is 5 minutes ahead, but she thinks that it is 7 minutes slow. Peter and Sophie agreed to meet at a restaurant at 1:00. Peter arrives when **he thinks** that it is 1:00, and Sophie arrives when **she thinks** that it is 1:00. What is the difference between their arrival times, in minutes?

Answer: _____