

NCC 2014

**Part A**

Student name: \_\_\_\_\_

1. What is  $123 + 444$ ?

Answer: \_\_\_\_\_

2. Katie has 2 cakes. She cuts each cake into 3 slices, then cuts each slice into 4 smaller slices. How many slices of cake does she have in the end?

Answer: \_\_\_\_\_

3. David starts with a square piece of paper with side length 3cm. He then carefully cuts out a rectangular  $2\text{cm} \times 1\text{cm}$  portion of the paper. What is the area of paper that remains?

Answer: \_\_\_\_\_

4. The Cookie Monster found two chocolate chip cookies in the cookie jar. One has 3 chocolate chips. The other has 9 chocolate chips. The Cookie Monster wants to move chocolate chips from one cookie to the other so that the two cookies have the same number of chocolate chips. How many chocolate chips does he have to move?

Answer: \_\_\_\_\_

5. Pablo starts with \$12. He spends half of it on a box of candies. He then spends a third of what's left on a chocolate bar. How much money does he have left?

Answer: \_\_\_\_\_

6. Four people are in a room. Each person shakes hands with each other person exactly once. How many handshakes happen?

Answer: \_\_\_\_\_

7. Alice has 12 coins in her wallet worth a total of \$1.00. If Alice only has quarters and nickels, how many nickels does she have?

Answer: \_\_\_\_\_

8. Alice and Bob are stacking books. Alice has 9 books in her pile and Bob has 6. Alice goes for lunch, and Bob stacks books until his pile has twice as many books as Alice's. Alice returns from lunch and stacks enough books on her pile so that the two piles are the same size. In total, how many books are in the two piles now?

Answer: \_\_\_\_\_