# **1-5C Solutions**

# **Answer for Question 1:**

The next row of Pascal's triangle is:

1 5 10 10 5 1

### **Answer for Question 2:**

The value for 11<sup>7</sup> is calculated as follows:



 $11^7 = 19487171$ 

## **Answer for Question 3:**



#### **Answer for Question 4:**

Sum of each row of Pascal's Triangle:

- 1 2
- 4 8
- 16
- 32

# **Answer for Question 5:**

My brother has given me a list of 10 CD's that he would like for his birthday. I have not decided how much money I will spend on him, or even if I will buy him anything. How many combinations of the requested CD's might I purchase?



A specific number to choose was not stated, so we can use the sum of the row where n = 10.  $2^{10} = 1024$ .

Look at how much time is saved!

# **Answer for Question 6:**

1 3 3 1

#### **Answer for Question 7:**

5 4 1

### **Answer for Question 8:**

5 9 5

### **Answer for Question 9:**



#### **Answer for Question 10:**

