If * represents an operation defined by a * b = a^b + b, find (1 * 2) * 3.

1._____

What is the maximum number of points of intersection when two distinct circles and three distinct lines intersect each other? 2. _____

3. If the seven-digit number 854n526 is divisible by 11, what is n?

3. _____

4. A television's price was discounted 40% and then slashed another 40% during a liquidation sale. By what percent has the original price been reduced? 4._____

 A survey was conducted regarding the number of automotive vehicles owned per household. The results of the survey are as follows: 5. _____

Vehicles	Households
0	3
1	9
2	10
3	2
4	1

Express the average number of vehicles per household as a decimal rounded to the nearest tenth.

6. In a certain school, $\frac{2}{3}$ of the faculty are women, $\frac{1}{4}$ of the men on the faculty are married and the other 9 men are bachelors. How many faculty members are there?

6. _____

7. Two bicycle racers cross the starting line on a circular track at 12:15 p.m. One cyclist can complete a lap in 12 minutes. The other completes a lap every 16 minutes. Assuming that their speeds remain constant, what is the next time they cross the starting line together?

7._____

 The sum of a whole number and the next four consecutive whole numbers is 105. Find the result when the mean of the numbers is subtracted from the median of the numbers. 8. _____