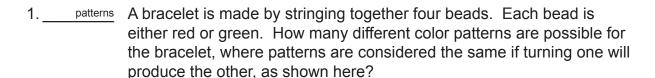


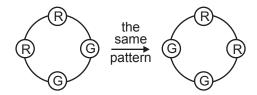
## **NOVEMBER CHALLENGE**

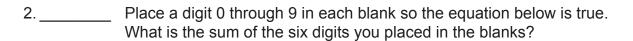


Name			

Calculators may be used.







$$(_6_{,3_1}) - (76_{,3_5}) = (_9,28_{,0})$$

- In the sequence 16, 80, 48, 64, A, B, each term beyond the second term is the arithmetic mean (average) of the previous two terms. What is the value of B?
- 4. \_\_\_\_seats Each row of passenger seats on an airplane is set up as shown, where "(" and ")" indicate a window, " \_\_\_ " represents a seat, and an aisle is between the second and third seat in every row. There are 96 passenger seats that are not along the aisle. How many passenger seats are along the aisle?

5. sq units Triangle ABC has sides with lengths 10, 23 and 27 units. The perimeter of a particular square is 60% of triangle ABC's perimeter. What is the area of the square?