Activity

1. a. i. How many hexagons are in this pattern?
   ii. How many green triangles are in this pattern?

   ![Hexagons and triangles pattern]

   b. If you used 16 hexagons to make a pattern like this, how many green triangles would you use?
   c. Sonny uses 82 green triangles. How many hexagons will he need to make this pattern?

2. a. How many orange squares and purple squares are in this pattern?

   ![Orange and purple squares pattern]

   b. If you continued this pattern, how many purple squares would be needed for 12 orange squares?
   c. What rule did you use to work out your answer?

3. a. How many sticks make up the six crosses in this pattern?

   ![Six crosses pattern]

   b. How many sticks would you need to make 10 crosses?
   c. If you had 120 sticks, how many crosses could you make?