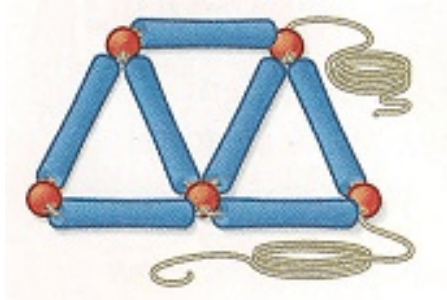1. Savannah is making a bracelet using long blue beads, round red beads, and string.

    (a) How many triangles will be in Savannah's bracelet if she has 15 blue beads? _____

    (b) How many triangles will be in Savannah's bracelet if she has 12 red beads? _____

2. Jesse is doing yard work. He gets paid $18 for raking the lawn, as well as $3 for every bag of leaves he fills. How much money will Jesse make for raking and filling 8 bags of leaves?

3. Shanti had 75¢ in nickels. She gave a nickel to each of her cousins. She started the following pattern to show what she did: 75, 70, 65, 60, 55,...
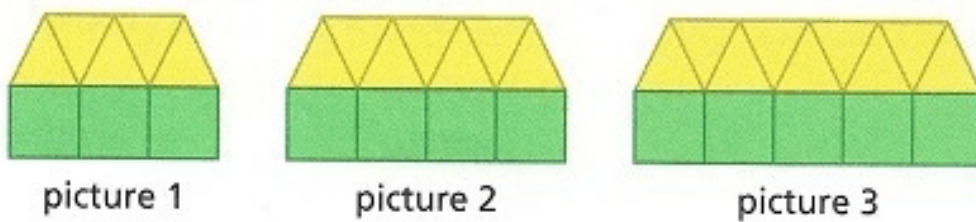
    (a) What is Shanti's pattern rule?

    _____

    (b) If Shanti gave away all of her nickels, how many cousins does she have? How do you know?

    _____

    _____

    _____

4. Solve the following equation using the **Inverse Method**:

$$n - 14 = 21$$

5. Max made a table to show the number of triangles and the number of squares in these pictures.

picture 1   picture 2   picture 3

Triangle and Square Pattern

Picture number	1	2	3	4
Number of triangles	5	7		
Number of squares	3	4		

(a) Complete the table of values.

(b) What is the pattern rule
for the number of triangles? _____

(c) What is the pattern rule
for the number of squares? _____

(d) How many triangles will be in Picture 6? _____

(e) How many squares will be in Picture 6? _____

6. Write an expression for each situation:

   (a) Six more than a number   _____
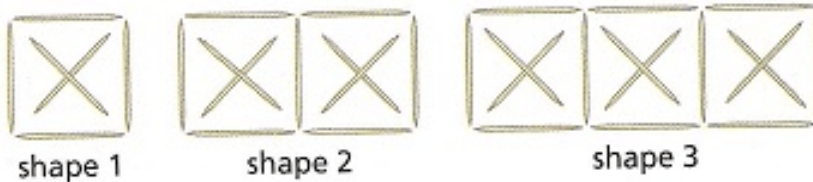
   (b) Fourteen less than a number   _____

   (c) Twenty more than a number   _____

   (d) Eleven less than a number   _____

7. Terence had some stickers. He gave 14 stickers away. Now he has 32 stickers. How many stickers did Terence begin with. Use an equation to solve this problem.

8. Cole made this pattern with toothpicks.

shape 1   shape 2   shape 3

   (a) How many squares can he make with 31 toothpicks?   _____

   (b) How many tooth picks will he need to make 10 squares? _____
        Complete and use the table of values...

	Shape 1	Shape 2	Shape 3	Shape 4	Shape 5	Shape 6	Shape 7	Shape 8	Shape 9	Shape 10
Squares	1	2	3							
Toothpicks	6	11	16							