# Brainy Acts of Math

## Logic Activities

The pages in this packet were originally published in
Brainy Acts, (ELE90/1022).

Name _____    Date_____

Divide the class into small teams of 3-4 students and provide each team with 20 M&Ms®, marshmallows, pretzel sticks, or other small treats. Be sure to tell the students not to eat these "game pieces!"

Read the following sequences aloud. Then have each team use their game pieces to show the next number in the sequence. The teams must work together to find the relationship between the numbers you have read and determine the correct number of game pieces.

1)  2, 4, 6, 8, _____

2)  1, 3, 5, 7, _____

3)  3, 6, 9, 12, _____

4)  4, 8, 12, 16, _____

5)  1, 4, 7, 10, _____

6)  3, 7, 11, 15, _____

7)  2, 6, 10, 14, _____

8)  5, 8, 11, 14, _____

9)  1, 2, 4, 8, _____

10)  25, 22, 19, 16, _____

11)  10, 8, 6, 4, _____

12)  60, 50, 40, 30, _____
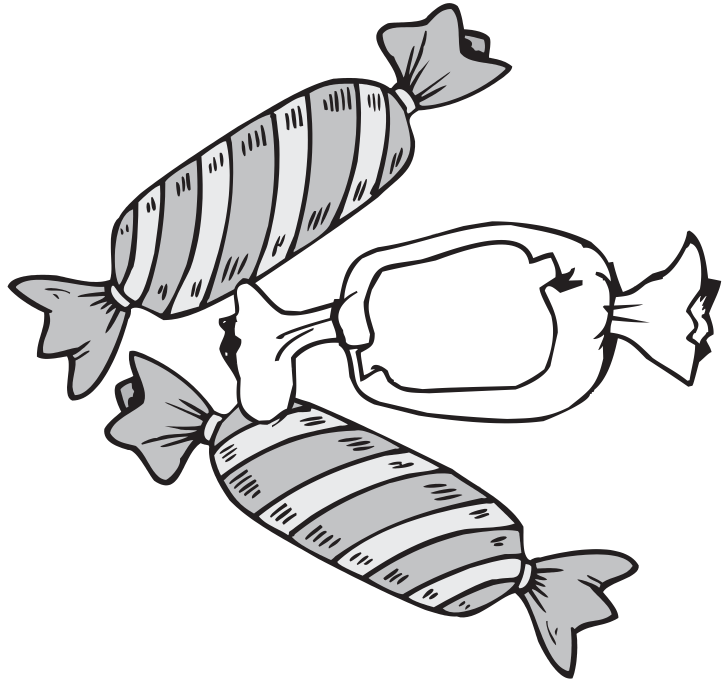
Numbers can be added to or removed from the sequences to make them more difficult. You may also wish to write the sequences on the board for the students to look at while they are working.

**Multiplication Tables**
This game is also a great way to practice multiplication tables. Tell the teams which multiplication set you will be using (multiples of 3, 5, etc.) and read the first equation (3 x 1 = 3). Have the teams show the appropriate number of game pieces for each equation in the set. This allows the students to physically see the multiplication of numbers as you move through the set. Additional game pieces will be needed for this activity.

# Hidden Pictures

Use the multiplication grid on the following page to find the answers to the problems. Shade in each answer with the correct color. When you have solved and colored all the answers, you will reveal a picture!

**Color these squares green:**

8 X 5= _____

8 X 6= _____

9 X 3= _____

9 X 4= _____

9 X 5= _____

9 X 6= _____

10 X 5= _____

10 X 6= _____

10 X 7= _____

10 X 8= _____

11 X 5= _____

11 X 6= _____

12 X 5= _____

12 X 6= _____

**Color these squares red:**

7 X 4= _____

7 X 5= _____

7 X 6= _____

7 X 7= _____

6 X 3= _____

6 X 4= _____

6 X 7= _____

6 X 8= _____

5 X 3= _____

5 X 4= _____

5 X 7= _____

5 X 8= _____

4 X 3= _____

4 X 4= _____

4 X 5= _____

4 X 6= _____

4 X 7= _____

4 X 8= _____

3 X 4= _____

3 X 5= _____

3 X 6= _____

3 X 7= _____

**Color these squares yellow:**

5 X 5= _____

5 X 6= _____

6 X 5= _____

6 X 6= _____