# SUNSHINE MATH - 4
## Jupiter, XI

*Name:* _____

*(This shows my own thinking.)*

★★ 1. The corner of this paper measures 90 degrees. Fold the lower right-hand corner of this paper so it represents two 45 degree angles. Trace the fold line with your pencil.

★★ 2. Estimate the result of the following problem as a whole number.

$$4\frac{1}{43} + 2\frac{15}{16} - 1\frac{24}{26} + 5\frac{11}{12} - 3\frac{3}{61}$$

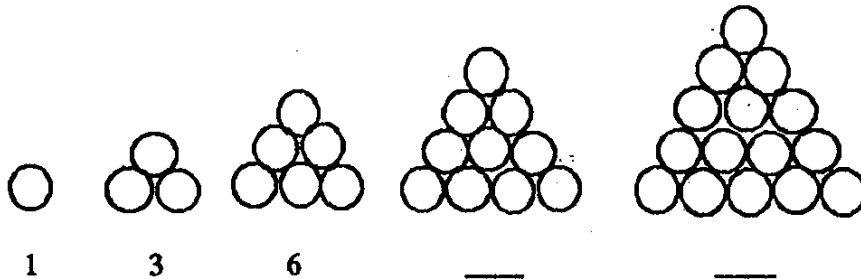Answer: _____

★★★ 3. How many ways can 3 students be arranged in three chairs?

Answer: _____ ways

★★ 4. Observe the circles in the triangle-shaped stacks. Fill in the missing numbers to show how many circles are in the last two stacks.

1    3    6    ___    ___

★★ 5. Draw the next figure in the above pattern.

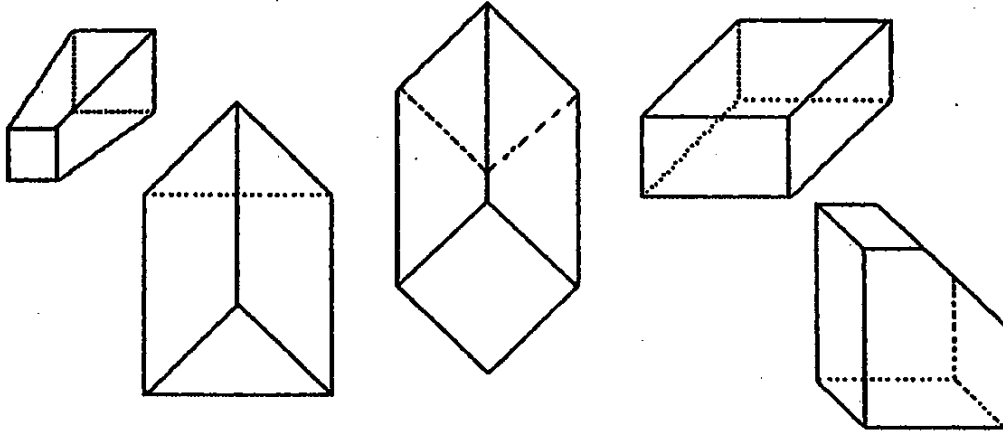★★★ 6. In the pattern for problem 4, how many circles would be in the 10th figure?

Answer: _____

★★★ 7. The Florida Lottery is made up of the numbers 1 - 49. My mother has observed that the winning numbers many times are prime numbers.

a. List the prime numbers from 1 - 49: _____

b. What is the probability of a prime number being picked randomly from the numbers 1 - 49? _____

c. Is the probability of picking a prime number greater than picking a number that is not prime? _____

★★★ 8. Put <, >, or = in each blank below, to give true statements.

(a) 3030 _____ 3300     (b) (345 + 253) _____ 600     (c) 1.09 _____ 1.090

★★★ 9. Circle the following solid figures that have at least one square face.



★★ 10. Lu Win likes to balance things. She balanced three 20-gram weights with a 10-gram weight and two new tubes of glue. How much did each tube of glue weigh?

Answer: _____ grams