

SUNSHINE MATH - 7
Neptune, XII

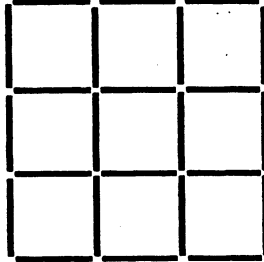
Name: _____
(This shows my own thinking.)

- ★★ 1. Using 4 fours with any operations or grouping symbols, write an expression that has a value of 9.

4 4 4 4

Answer: _____

- ★★ 2. This figure is made of 24 toothpicks arranged to form 9 small squares. Show how to remove 4 toothpicks, by putting an X on them, to leave 5 small squares.



- ★★★ 3. Give an example of 4 different test scores whose median equals the mean.

Answer: _____

- ★ 4. There are 5 students on the bowling team, 8 students on the track team and 4 students on the tennis team. The only students on more than one team are the two students on both the bowling and tennis teams. How many students are participating in these three sports?

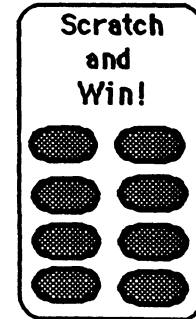
Answer: _____ people

- ★★ 5. Before the big flag football game between 7th and 8th grade girls, the ten 7th graders on the team all shake hands with each other. How many handshakes are exchanged?

Answer: _____

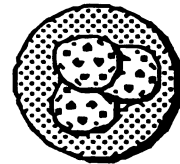
- ★★★ 6. A new lottery game has 8 scratch-off spots. The numbers from 1 through 8 have been randomly placed on the spots. To win, you have to scratch off 3 *even numbers* with only 3 scratches allowed. What are your chances of winning?

Answer: _____



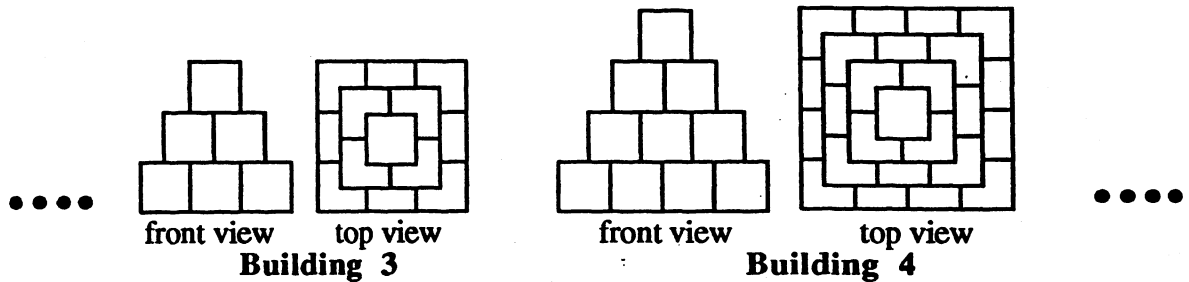
- ★★★★ 7. To make money for the 7th grade end-of-year party, baked goods were to be sold. Herbert was assigned to correctly price the cookies. A small cookie was to sell for 25¢. A giant cookie, whose diameter was 4 times that of the small cookie, was also to be made. Herbert priced the giant cookie based on its area as compared to the area of the small cookie. How much did it sell for?

Answer: _____



- ★★★ 8. Shown below are the front view and top view of two buildings made according to a pattern.

- How many blocks would it take to build the 5th building in the pattern? _____
- How many blocks would it take to build the 10th building in the pattern? _____
- If you had 1000 blocks, what the largest building number you could build? _____



- ★★ 9. How much larger is the sum of the even numbers from 1 to 100, than the odd numbers from 1 to 100?

Answer: _____