

SUNSHINE MATH - 8
Pluto, XXVII

Name: _____

(This shows my own thinking.)

- ★ 1. Replace O, N, E, T, and W with numerals to make a true equation.

$$\begin{array}{r} \text{O N E} \\ + \text{O N E} \\ \hline \text{T W O} \end{array}$$

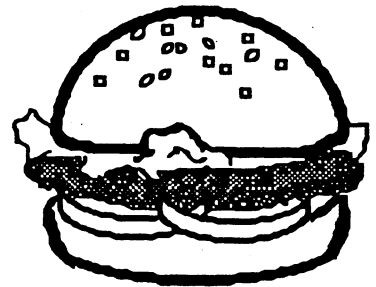
Answer : $\begin{array}{r} \square \square \square \\ + \square \square \square \\ \hline \square \square \square \end{array}$

- ★★★ 2. Find the number represented by N . Begin with 512. Divide by 16. Divide by N . Add 256. The result is 320.

Answer : _____ = N

- ★★ 3. Charles needs 100 hamburger buns for his party. They come in packages of 8 for \$1.10 and 6 for \$0.90. To spend the least amount of money and have enough buns he should buy:

- a. 10 packages of 8 and 4 packages of 6
- b. 11 packages of 6 and 7 packages of 8
- c. 13 packages of 8
- d. 17 packages of 6

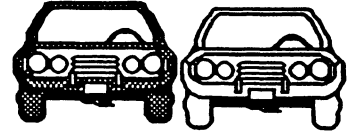


Answer: _____

- ★★★★ 4. Ralph has 5 baseball trophies, 4 tennis trophies, and 3 soccer trophies. He wants to arrange them on a shelf in the family room so that all the baseball trophies are together on the left end, and all the tennis trophies are together in the middle. How many different arrangements of the trophies on the shelf are possible?

Answer : _____ different arrangements

- ★ 5. Two cars are driving next to each other in 2 lanes from New Port Richey to Weeki Wachee. Both cars leave New Port Richey at the same time, and travel the same speed. Yet one car takes 90 minutes to arrive, while the other takes 1 hour and 30 minutes. Explain why.



Answer: _____

- ★ 6. Last year the 8th grade class raised \$86.75, \$42.50, \$105.00, and \$70.50 at four car washes. They plan on having more car wash fund raisers this year. On the average, how much should they plan on raising at each car wash?

Answer : \$ _____

- ★★ 7. A number of campers are standing in a circle at summer camp, evenly spaced. They begin to "count off," starting with 1. Camper number 5 hears the one directly opposite her count "seventeen" but is distracted by a bug crawling on her leg. Later she wanted to tell her Dad about the game they played, and quickly figured out how many campers were in the circle. What was the number?

Answer : _____ campers

- ★★ 8. Marcus' Dad made \$42,000 a year in 1993. He was forced to take a 10% pay cut the following year due to the company losing business. The next year, the company did well again and said it was giving all its employees a 10% raise for their loyalty during the hard times. After the 10% cut and a 10% raise, how much was Marcus' Dad to make?

Answer: \$ _____ per year

