

SUNSHINE MATH - 7

Neptune, XXVII

Name: _____
(This shows my own thinking.)

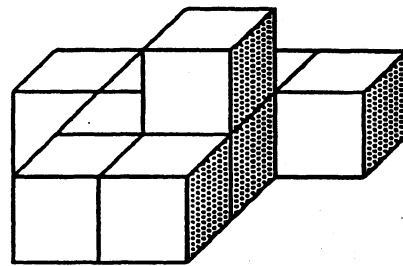
- ★★ 1. Using 4 fours with any operations or grouping symbols, write an expression that has a value of 7.

$$4 \ 4 \ 4 \ 4 = 7$$

Answer: _____

- ★★★ 2. To glue these 9 cubes together, how many square surfaces must be joined?

Answer: _____



- ★★ 3. It was 3:00 PM when Akita measured the depth of her fish pond to be three and one half feet. It was filling at a rate of 1 inch per minute. When would it be 8 feet deep so she could turn the pump off?

Answer: _____ o'clock

- ★★★ 4. In a summer camp, counselors often split the campers into 3, 5 or 6 equal groups but they always ended up with one extra camper. Today they split the campers into 7 equal sized groups and there were no campers left over. What is the smallest number of campers at this camp?

Answer: _____ campers

- ★★★ 5. Find the pattern. Use it to write the next 4 terms in the blanks.

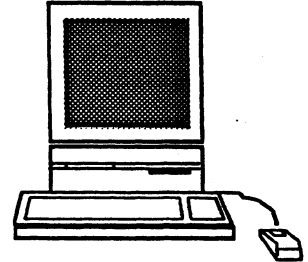
1, 1, 2, 3, 5, 8, 13, 21, _____, _____, _____, _____, . . .

- ★★★ 6. The sum of 5 different positive integers is 500. What is the largest possible value for one of these integers .

Answer: _____

- ★★ 7. Four typists can type a total of 200 letters in 2 days. How many letters can two of these typists type in one day?

Answer: _____ letters



- ★★ 8. In how many ways can the Williams family, shown in the picture, arrange themselves in a line? Don't count the dog as a family member!

Answer: _____ ways



- ★★ 9. Write an equation and solve it to answer the question in this problem.

Fingernails grow about 1.5 inches per year. How many years y would it take to grow a world record nail of 37 inches, starting with your present length of about $\frac{1}{2}$ inch?

Answer: Equation: _____

Solution: $y =$ _____

- ★★★ 10. Write an equation and solve it to answer the question in this problem.

Carrie started saving with a \$10 gift from Grandma. She saved half her allowance a each week. At the end of a year she had \$88. How much per week was her allowance?

Answer: Equation: _____

Solution: $a =$ _____