

# MATH SUPERSTARS - 4

## Jupiter, XII

Name: \_\_\_\_\_

(This shows my own thinking.)

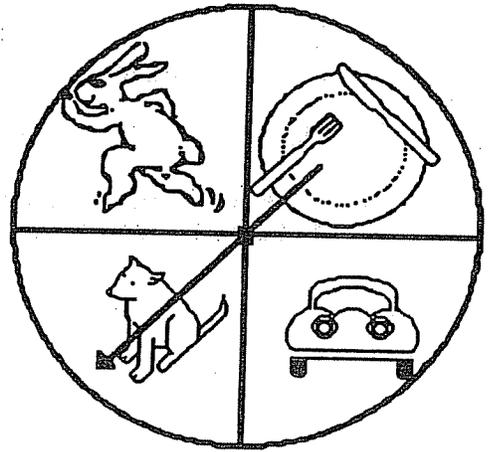
- ★★★ 1. A snail climbs up a wall 20 feet high. Each day the snail climbs 5 feet, but each night it slips backwards 4 feet. How many days will it take for the snail to get to the top of the wall?

Answer: \_\_\_\_\_ days

- ★★ 2. Raoul got to spin this spinner, to see what chore he had to do Saturday mornings. He could wash the dishes, wash the car, wash the dog, or change the paper in the rabbit cage. What is the chance he will have to wash something Saturday morning, as a fraction and as a percent?

Answers: fraction: \_\_\_\_\_

percent: \_\_\_\_\_



- ★★ 3. A costume shop had a special sale. Bob got his clown costume for  $\frac{1}{2}$  off the marked price of \$25. How much did the costume cost?

Answer: \_\_\_\_\_



- ★★ 4. If today was October 11th, how many days would be left in the current year?

Answer: \_\_\_\_\_ days

★★★ 5. What Number Am I ?

I am a three-digit number.  
I am less than 200.  
I am divisible by 12, and by 9.  
My units digit is less than my tens digit.

Answer: \_\_\_\_\_

★★★ 6. Suppose that humans walk about 10,000 steps per day, on average.

- a. Your average step is probably about 18 inches.  
If so, how many *inches* per day do you walk? \_\_\_\_\_
- b. How many *feet* per day do you walk? \_\_\_\_\_
- c. How many *miles* per day do you walk, to the nearest whole mile? \_\_\_\_\_



- ★★ 7. If you tend to be one of those people who taps their foot, picks their nails, drums their fingers, or moves around in their seat, there may be some good news. Although your fidgeting may be annoying to others, researchers at the National Institute of Health reports that one of these habits can burn as much as 800 calories per day. If you want to lose weight, this might help.

For someone who fidgets as above, how many calories per hour are burned up? Assume the person sleeps 8 hours per day, and doesn't fidget while asleep.

Answer: \_\_\_\_\_

- ★★★ 8. It costs Mr Kringle \$10 to make 100 giant pretzels for his bakery. If he sells his pretzels for 25¢ each, how much profit will he make after selling all 100 pretzels?

Answer: \$ \_\_\_\_\_ profit

