

# MATH SUPERSTARS -6

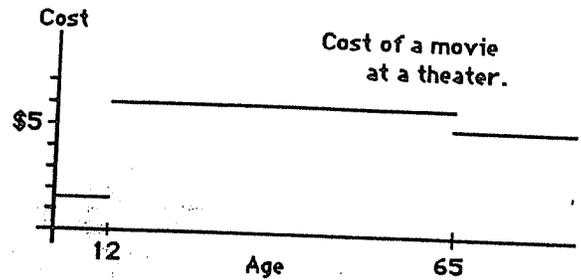
## Uranus, XV

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

(This shows my own thinking.)

★★★★ 1. Answer these questions about the graph.

- How much does it cost for a 5-year old to go to a movie? \_\_\_\_\_
- How much does it cost a 15-year old to go to a movie? \_\_\_\_\_
- How much does it cost a senior citizen to go to a movie? \_\_\_\_\_
- How much would it cost a father in his 40's and his 8-year old twins to go to a movie? \_\_\_\_\_



★★ 2. Karen has 20 coins worth \$1.35. The coins are all nickels and dimes. How many of each coin does she have?

Answer: \_\_\_\_\_ nickels  
 \_\_\_\_\_ dimes

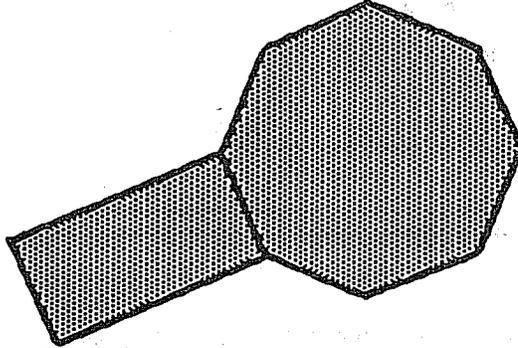
★★★ 3. Five campers agreed to "share the lookout" one night. They divided the time between bedtime (9:00 PM) and sunrise (5:30 AM) into five equal time intervals. Give the resulting times below.

1st watch: 9:00 PM until \_\_\_\_\_ 4th watch: \_\_\_\_\_ until \_\_\_\_\_  
 2nd watch: \_\_\_\_\_ until \_\_\_\_\_ 5th watch: \_\_\_\_\_ until \_\_\_\_\_  
 3rd watch: \_\_\_\_\_ until \_\_\_\_\_

★ 4. The students at Harry's school are going to take a field trip. There are 487 students and 45 can ride on each bus. How many buses are needed for the field trip? Circle your answer.

- a) 12 buses                      b) 10 buses                      c) 11 buses

- ★★★ 5. A rectangle and a regular octagon share a common side. If the length of the rectangle is twice its width and the perimeter is 36 cm, what is the perimeter of the octagon?



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

- ★★ 6. Marcus has 3 red marbles, 9 white marbles, and 4 green marbles. He wants to divide all the marbles evenly into two jars, but he only wants two colors in each jar. How can they be divided?

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

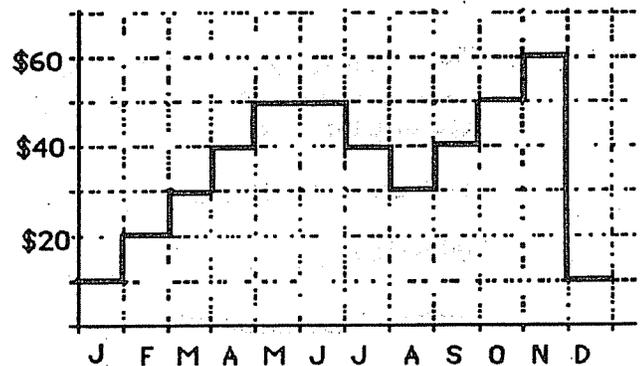
- ★★★ 7. The graph shows the balance in Jeremy's savings account for 1995.

- a. What happened to Jeremy's account during the spring months?

answer: \_\_\_\_\_

- b. When did the savings drop by \$10 at the end of the month?

answer: \_\_\_\_\_ and \_\_\_\_\_



- c. Between what two months did the biggest change occur? \_\_\_\_\_ and \_\_\_\_\_

- ★★ 8. Larry's ice cream shop has chocolate macadamia nut ice cream, rocky road ice cream, and strawberry cheesecake ice cream. They also have sugar cones and waffle cones. How many different double-dip ice cream cone combinations (using two different flavors of ice cream) can they make from these selections? The order of the ice cream does not matter, for example, chocolate macadamia on top of strawberry is the same as strawberry on top of chocolate macadamia.

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