

MATH SUPERSTARS – 4

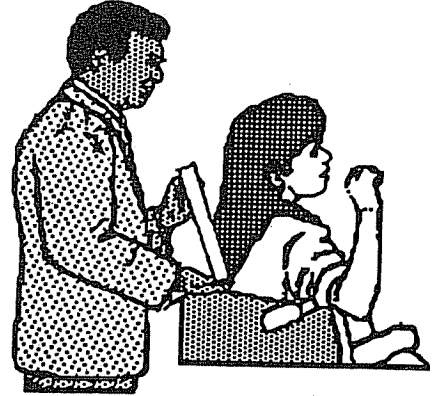
Jupiter, II

Name: _____

(This shows my own thinking.)

- ★★ 1. Hair grows about $\frac{1}{2}$ inch each month. After you shave your head, how many years will it be until your hair is 1 foot in length?

Answer: _____ years



- ★★ 2. Robert received a weekly allowance of \$6 on Monday. He put 50% of his money in his empty piggy bank, but then took out 50% of that money to go to a movie. How much money was left in the piggy bank?

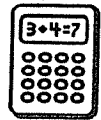
Answer: \$ _____

- ★★★ 3. An arcade video game had a code built in. In order to play the game Tamika had to find the missing numbers. Help her by filling in the pattern below.

113, _____, 95, 86, 77, _____, 59, _____, 41, 32, 23, 14, 5.

- ★★★ 4. Sabrina used a calculator and started adding the whole numbers in order:

$$1 + 2 + 3 + 4 + 5 + \dots$$



What is the last number she would add that would get the sum on her calculator over 1,000?

Answer: _____

- ★★ 5. Marcus, Aaron, and Jason went to a double feature movie. The show began at 1:45 pm and lasted for 4 hours and 27 minutes. At what time did the show end?

Answer: _____

- ★★ 6. Maria, Colleen, Patsy, and Kenya are 8, 9, 10, and 11 years old.

Maria is older than Patsy and younger than Kenya.

Colleen is younger than Marie and older than Patsy.

What is each girl's age?

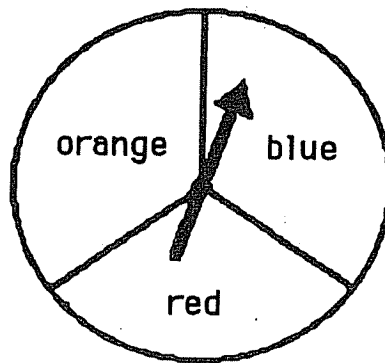
Answers: Maria: _____ years old.

Patsy: _____ years old

Colleen: _____ years old

Kenya: _____ years old

- ★★★ 7. On a game board, landing on blue means to move ahead 1 space, landing on red means to move ahead 2 spaces, and landing on orange means to move back 1 space. If you took 30 spins, about where would you expect to be on the game board, relative to where you started?



Answer: I would be about _____ spaces _____
(ahead or behind)

- ★★★ 8. Margarit liked to balance things. She balanced 3 pencil sharpeners and 2 one-gram blocks with a 100-gram weight and another one-gram block. She let x stand for the weight of one pencil sharpener, and she claimed that $x = 30$ grams. Was she correct? If not, how much did each pencil sharpener weigh?

Answer: _____

