

## Weekly Problem

There are about **10,000,000** (10 million) molecules along the edge of a 1-centimeter crystal like this one. That is a *huge* number! Here are 2 ways to help you picture it.

a) There are about 100,000 hairs on the average head. If you wanted to have 10,000,000 hairs in one room, how many heads would you need?



b) There are 470 names on one page in an average telephone book. If each molecule were a name, about how many phone book pages would it take to list 10,000,000 names?





## Writing for Science

Past Fiction

and sorcerer of King Arthur's Court) began to teach his magic arts to a beautiful young apprentice, when he was very old. When she had learned all of his secrets, she cast a spell on him and trapped Merlin in a magical Crystal Cave for all eternity.

As luck would have it, you happen to notice a very large, unusually shaded crystal rock, while you are exploring caves in England this summer. After chipping away at the rock with your pick, you see that a strange man is indeed beginning to move *inside* the rock. What questions will you ask Merlin when you finally set him free?

- What was it like for Merlin being trapped inside a crystal all these years?

- Have all his magical powers returned now that he's free?

- What would you like to know about King Arthur and Camelot?

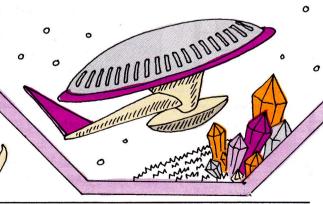
 What favor can Merlin grant you as a reward for freeing him?



## **Future Fiction**

You are a crew member on the Starship EmeraldPrize, the only ship to ever reach the mysterious Crystal Planet. Your mission: to explore strange new worlds. The captain has asked you to keep a diary of the ship's voyage to this unusual shining planet.

- Describe your ship's landing on this planet.
- What was the landing surface like?
- How did the planet look, feel, and sound?
- What special exploring tools did you need?
- What were the inhabitants of this planet like?





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