No Pencils, Please!
Problems to Think About

Talk with your partner about each problem and be prepared to share with the class your thinking. Don't actually solve the problems, but answer the following:

1. What do you know when you read the problem?
2. What are you trying to find out?
3. What mathematics understandings and skills do you need to solve the problem?
4. What questions do you have before you begin to work?
5. Does the answer require any explanation or justification in addition to numbers?

In an old North Carolina folk tale a man is promised as much land as he can walk around from sunup to sundown. If you were given that offer, how much land could you claim and what shape would it be? Explain in detail how you determined your answer.	Make a graph to show how any hours you spend on different activities in a typical school day. Explain why you choose the type of graph you use and show all of your calculations.
A person who weighs 150 pounds on Planet X will weigh 520 pounds on Planet Z. How much would a person weigh on Planet Z who weighs 110 pounds on Planet X?	Carmen has 16 meters of binding ribbon. She cut off 1/5 of the ribbon to go around the large pillow she is making. How much binding ribbon did she use?
The farmer left 35 horses to his three sons to be divided among them in the following ways: one-half to the older son, one-third to the second son, and one-ninth to the third son. The brothers argue about how many horses each will receive because they could not agree. Finally a neighbor rode his horse over to the field and divided the horses to everyone's satisfaction. What did the neighbor do and how many horses did each brother get?	A clothing company embroiders names on school jackets. It costs them approximately $.75 per letter. They want to make 100% profit on their service. However, they decided to charge a flat fee rather than different amounts for different names since most people only want their first name on the jackets. Make a recommendation to the owners about how much they should charge, explaining how you determined the amount.