

## Sample Seed Questions Handout

### MathNerds Challenge #1

Instructions: Do your work on another sheet of paper. The space on this paper is probably not enough to show all your work. As you attempt each of these problems, write out or draw what you are thinking. If you get the answer, make sure you include a reasonable explanation of how you got the answer. Good Luck and Have Fun!

1. Jeremy counted 7 cycle riders and 19 cycle wheels going past his house. The riders were either on a bicycle or a tricycle. How many tricycles could there be?
2. For her class, Ms. Woodland is planning a party in a large recreation room. There will be 22 people, and in order to seat them, she needs to borrow square card tables, the size that seats one person on each side. She wants to arrange the tables in a row to make one long rectangular table. How many tables does Ms. Woodland need?
3. Amy and Lisa earned the same amount of money, although one worked 6 days more than the other. If Amy earned \$36 per day and Lisa earned \$60 per day, how many days did each work?
4. In the 5th grade there are 45 students who have played soccer and 30 who have played basketball. There are 20 students who have played both sports, and 15 who have played neither. How many students are in the 5th grade?

Any question? Contact MathNerds at their website: [www.mathnerds.com](http://www.mathnerds.com) .  
Texas State University mathematics undergraduates can help you!