Math 103:99

Anonymous student survey, January 19, 2000

Part I

1. What is $12 + 7 \bmod 15$?

2. What is 43 in binary notation?

3. What are the prime factors of 72?

4. What is $7^{23} \bmod 15$?

5. Which is larger, $A = \left(2^5\right)^7$ or $B = 2^{(5^7)}$?

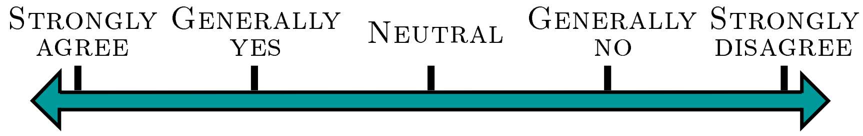
6. Suppose S is the collection of letters in the English alphabet. What is the probability that a letter chosen at random from S is **e**?

7. Suppose T is the collection of letters in the word **seersucker**. What is the probability that a letter chosen at random from T is **e**?

Over, Please.

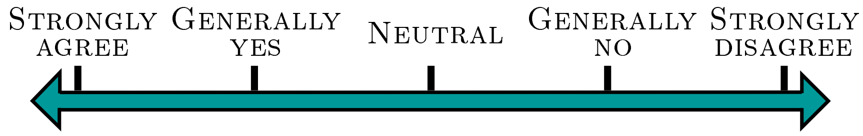
Part II

A. You should be able to copy any picture or music that you find on the Internet.



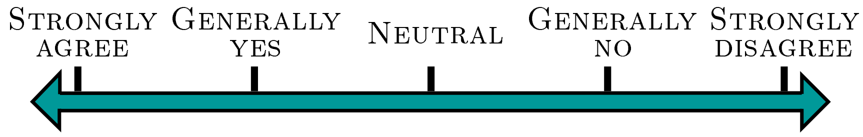
Support your answer with a sentence or two.

B. Suitable government authorities should be able to have access to your e-mail.



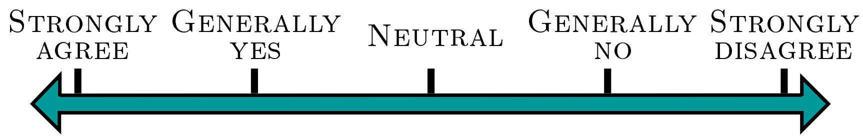
Support your answer with a sentence or two.

C. Personal financial and medical information should be totally secure from every inquiry.



Support your answer with a sentence or two.

D. Math is needed to build rockets. In order to make decisions about business or government policy, most people don't need to know very much math or even very much about what math can do.



Support your answer with a sentence or two.

Thank you.