**Answer these questions**

These questions are intended to be answered as part of an activity using [http://howsecureismypassword.net](http://howsecureismypassword.net).

The questions below assume you try things out using that tool.

- Create a few passwords using 8 lowercase ASCII characters (a-z). What’s the longest amount of time-to-crack you can generate?

- Using any characters on the keyboard, what’s the longest amount of time-to-crack you can generate with an 8-character password?

- As you try passwords, what seems to be the single most significant factor in making a password difficult to crack? Why do you think this is?

- Opinion: Is an 8-character minimum a good password length for websites to require? Give your opinion, yes or no, and explain why you think that.

- The AP CS Principles framework contains the following statement: *Implementing cybersecurity has software, hardware, and human components.* Based on what you’ve learned so far, describe at least one way that cybersecurity involves “human components.”

Hopefully you can now appreciate this comic: [http://xkcd.com/936/](http://xkcd.com/936/)