

Answer the questions below, making sure to show all work.

1- A steady 2.4 A of current flows past a point in a wire for 3.4 minutes. How much charge passed?

b- How many electrons would this be?

2- A charging station charged a battery for 1 hour at 5.7 A. How much charge did the battery receive?

3- A wire delivers 3.5×10^{13} electrons in 3.8 seconds. What is the Current in the wire?

4- Explain the difference between conventional current, and the flow of electrons. Draw a picture to support your answer.