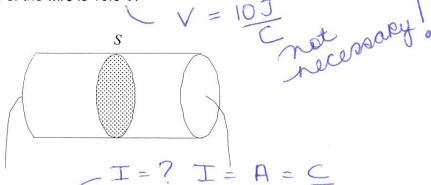
A charge of 240 coulombs passes through a metal wire in 2.0 minutes. The potential difference across the ends of the wire is 10.0 V.



What is the intensity of the electric current passing through the wire?

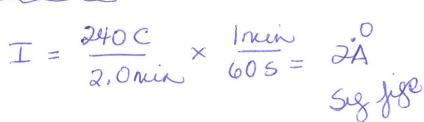
- V = 5/C

A) 1.2 A

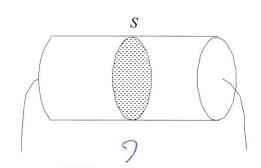
1

2

- 2.0 A B)
 - C) 2.4 A
 - 5.0 A D)



A voltage of 5.0 V is applied to the ends of a metal wire. An electric current of 6.0 A = \Box flows in the wire.



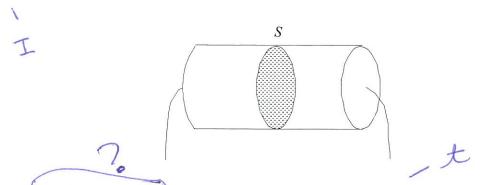
What is the quantity of electric charge which crosses a section S of this wire in/30 seconds?

 $6.0A = 6.0C \times 30\% = 180C$

- A) 180 C
 - B) 150 C
 - C) 90 C
- D) 30 C

4

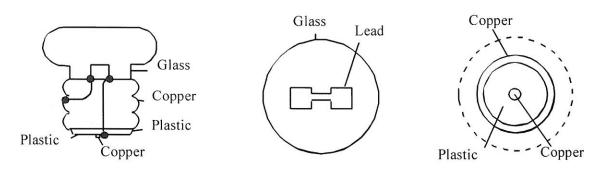
When a voltage of 8.0 V is applied to the ends of a metal wire, an electric current of 4.0 A flows in the wire.



How many electrons pass through section S of the wire in 1 minute?

- A) 3.0×10^{21} electrons
- B) 2.5×10^{21} electrons
- C) 2.0×10^{21} electrons
- D) 1.5×10^{21} electrons

The diagram below shows an electric fuse.



Side View (cross-section)

View from above

View from below

4.0C × 608 × 1e-18 × 1min × 1.6×10-19C

What is the function of the glass and the plastic? Las blown

1. An electron is located 1.00×10^{-10} m to the right of another electron.

What is the force on the first electron from the second electron?

What if these are protons instead?

F= Rq.92 rather math