

## Answer on Question #71596, Physics / Other

How many electrons are contained in -3.8C charge?

### Solution:

Charge on an electron is

$$e = -1.602 \times 10^{-19} \text{ C}$$

By quantization property of charge, we have

$$Q = Ne = -3.8 \text{ C}$$

So, the number of electrons N is

$$N = \frac{Q}{e} = \frac{-3.8}{-1.602 \times 10^{-19}} = 2.372 \times 10^{19}$$

**Answer:**  $2.372 \times 10^{19}$

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