1. If the current in a wire is measured to be 5 A, how much charge passes by a point in the circuit every minute?

Date:

- 2. The filament of a light has 1250 C of charge flow through it in 20 min. What is the current in the filament?
- 3. What is the current in a wire if 63×10^{-4} C of charge passes by a point in 5 seconds?

- 4. A load has a current of 60 mA flow through it. What quantity of charge flows through the load in 80 s?
- 4) 5. How long does it take 50 C of charge to pass by a point if the current in the circuit is 0.89 A?

6. a) If the current in a wire is measured to be 3 A, how much charge passes by a point in the circuit every minute?

BONUS b) How many electrons is this? (1 C = 6.25×10^{18} electrons)

5)____

2)

1)_____

3)____

6)

Calculate the Current

Calculate the current in each of the following circuit diagrams. The current at the source is represented by $I_{\rm T}$





