



Characteristics of Electricity – Measuring Electricity



## Current & Charge Calculations Worksheet

current = charge moving past a point  
time

$$I = \frac{Q}{t}$$

Units: I is A (amperes)  
Q is C (coulombs)  
t is s (seconds)

$$1C = 6.24 \times 10^{18} \text{ electrons}$$

1. Find the unknown quantity.

a)  $I = 0.4 \text{ A}$   
 $Q = ?$   
 $t = 20 \text{ s}$

$$Q=It = 0.4 \times 20 = 8 \text{ C}$$

b)  $I = ?$   
 $Q = 240 \text{ C}$   
 $t = 300 \text{ s}$

$$Q=It$$
$$I=Q/t = 240/300 = 0.8 \text{ A}$$

c)  $I = 2 \text{ A}$   
 $Q = 400 \text{ C}$   
 $t = ?$

$$Q=It$$
$$t = Q/I = 400/2 = 200 \text{ s}$$

2. Find the unknown quantity (CONVERT FIRST to SECONDS)

a)  $I =$   
 $Q = 140 \text{ C}$   
 $t = 4 \text{ min} = 4 \times 60 = 240 \text{ s}$

$$Q=It$$
$$I=Q/t = 140/240 = 0.58 \text{ A}$$

b)  $I = 0.3 \text{ A}$   
 $Q =$   
 $t = 1.5 \text{ hours} = 1.5 \times 3600 = 5400 \text{ s}$

$$Q=It = 0.3 \times 5400 = 1620 \text{ C}$$

c)  $I = 0.9 \text{ A}$   
 $Q =$   
 $t = 3 \text{ min} = 3 \times 60 = 180 \text{ s}$

$$Q=It = 0.9 \times 180 = 162 \text{ C}$$

3. If there is a current of 10 amperes in a circuit for 10 minutes, what quantity of electric charge flows in through the circuit?

$$Q=It = 10 \times 10 \times 60 = 6000 \text{ C}$$

4. How much current must there be in a circuit if 100 coulombs flow past a point in the circuit in 4 seconds?

$$Q=It$$
$$I=Q/t = 100/4 = 25 \text{ A}$$

5. How much time is required for 10 coulombs of charge to flow past a point if the rate of flow (current) is 2 amperes?

$$Q=It$$
$$t=Q/I = 10/2 = 5 \text{ s}$$

## Charge Worksheet Answers

**George Graybill**

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