

**Electrical current (I), electrical charge (Q) and time (t) calculations.**

[Total 18 marks]

1. How much electrical charge flows past a point in a circuit every 10 second when the current is 3 Amps? [3]
2. If an electrical charge of 12 Coulombs flows past a point in a circuit every 1.5 seconds what is the current? [3]
3. How long does it take a charge of 60 Coulombs to flow through an ammeter if the current is 12 Amps ? [3]
4. What is the reading on an ammeter in a circuit if 810 Coulombs of charge flows through it every 4½ minutes? [3]
5. If an ammeter reads 200 mA how long does it take for 40 Coulombs of charge to flow through it? [4]
6. How many electrons would be required to carry the electrical charge calculated in question 1? [2]

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