Current Word Problem Drills

Determine the unknown in each of the following:

- **1** A device draws 0.869 A of current from a source for 3.32 min. What is the total amount of charged delivered?
- **2** In 13 s, 6.16 C of charge pass through a device. What is the current through the device?
- **3** In 1.92 min, 27.72 C of charge pass through a device. What is the current through the device?
- **4** A device draws 0.502 A of current from a source for 1.22 min. What is the total amount of charged delivered?
- **5** In 3.07 min, 62.93 C of charge pass through a device. What is the current through the device?
- 6 In 25 s, 12 C of charge pass through a device. What is the current through the device?
- **7** A device draws 0.832 A of current from a source for 3.15 min. What is the total amount of charged delivered?
- **8** A current of 0.321 A delivers 78 C of charge. How much time did this take in minutes?
- **9** In 25 s, 7.33 C of charge pass through a device. What is the current through the device?
- **10** A current of 0.878 A delivers 111.51 C of charge. How much time did this take in minutes?
- **11** A current of 0.444 A delivers 32.41 C of charge. How much time did this take in minutes?
- **12** A device draws 0.189 A of current from a source for 3.25 min. What is the total amount of charged delivered?
- **13** A current of 0.211 A delivers 24.05 C of charge. How much time did this take in minutes?
- **14** In 1.32 min, 48.27 C of charge pass through a device. What is the current through the device?
- 15 A current of 0.615 A delivers 34.44 C of charge. How much time did this take?

Answers

^{1.} Q = 172.93 C 2. I = 0.474 A 3. I = 0.241 A 4. Q = 36.65 C 5. I = 0.342 A 6. I = 0.48 A 7. Q = 157.25 C 8. t = 4.1 min 9. I = 0.293 A 10. t = 2.1 min 11. t = 1.2 min 12. Q = 36.86 C 13. t = 1.9 min 14. I = 0.611 A 15. t = 56s