## 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 $13 \mathrm{~s}, 6.16 \mathrm{C}$ of charge pass through a device. What is the current through the device?
$3 \ln 1.92 \mathrm{~min}, 27.72 \mathrm{C}$ 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?
$5 \ln 3.07 \mathrm{~min}, 62.93 \mathrm{C}$ of charge pass through a device. What is the current through the device?
$6 \ln 25 \mathrm{~s}, 12 \mathrm{C}$ 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 $25 \mathrm{~s}, 7.33 \mathrm{C}$ 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?
$14 \operatorname{In} 1.32 \mathrm{~min}, 48.27 \mathrm{C}$ 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. $Q=172.93 \mathrm{C} 2 . I=0.474 \mathrm{~A} 3 . I=0.241 \mathrm{~A} 4 . \mathrm{Q}=36.65 \mathrm{C} 5 . I=0.342 \mathrm{~A} \quad 6 . I=0.48 \mathrm{~A} 7 . \mathrm{Q}=157.25 \mathrm{C} 8 . \mathrm{t}=4.1 \mathrm{~min} 9 . \mathrm{I}$ $=0.293 \mathrm{~A} 10 . t=2.1 \mathrm{~min} 11 . \mathrm{t}=1.2 \mathrm{~min} 12 . \mathrm{Q}=36.86 \mathrm{C} 13 . \mathrm{t}=1.9 \mathrm{~min} 14 . \mathrm{I}=0.611 \mathrm{~A} 15 . \mathrm{t}=56 \mathrm{~s}$
