

11 Current, resistance, and power – Part 1 —Answers

Answers

Work through these after you have tried the questions yourself.

2.1 $I = \frac{10}{5.0} = 2.0 \text{ A}.$

2.2 $V = IR = 3.0 \times 4.0 = 12 \text{ V}.$

2.3 resistance increases with length and decreases with thickness (larger cross-section).

2.4 $P = IV = 0.50 \times 6.0 = 3.0 \text{ W}.$

2.5 the current.