

PHYSICAL SETTING PHYSICS

Thursday, June 13, 2013 — 1:15 to 4:15 p.m., only

ANSWER BOOKLET

Student KEY Sex: Male
 Female
 Teacher
 School Grade

Record your answers for Part B-2 and Part C in this booklet.

Part B-2

51-52 $L = 25.0 \text{ m}$

PLATINUM

$A = 3.5 \times 10^{-6} \text{ m}^2$

$R = .757 \Omega$

20°C

$\rho = ?$

$R = \frac{\rho L}{A}$

$\rho = \frac{RA}{L} = \frac{(.757 \Omega)(3.5 \times 10^{-6} \text{ m}^2)}{25.0 \text{ m}}$

$\rho = 1.06 \times 10^{-7} \Omega \cdot \text{m}$

$= 10.6 \times 10^{-8} \Omega \cdot \text{m}$

} 1PT
 } 1PT

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