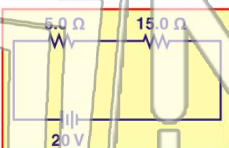





Name _____ Class _____ Date _____

1 The diagram below shows two resistors connected in series to a 20-volt battery. If the current through the 5.0-ohm resistor is 1.0 ampere, the current through the 15.0-ohm resistor is



A 1.0 A
B 0.33 A
C 3.0 A
D 1.3 A

2 Resistors R_1 and R_2 have an equivalent resistance of 6 ohms when connected in the circuit shown below. The resistance of R_1 could be



A 1 Ω
B 5 Ω
C 8 Ω
D 4 Ω

3 The diagram below represents an electric circuit. The total amount of energy delivered to the resistor is



4 A copper wire is part of a complete circuit through which current flows. Which graph best represents the relationship between the wire's length and its resistance?

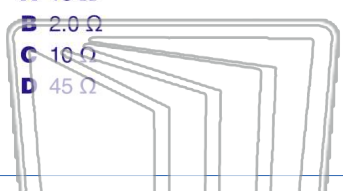


PREVIEW

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7 resistance is

A 15 Ω
B 2.0 Ω
C 16 Ω
D 45 Ω

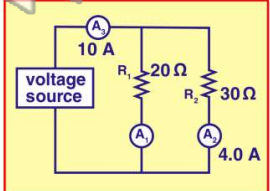


8 resistance of the wire is directly proportional to

A L/A
B $L \times A$
C A/L
D $L + A$

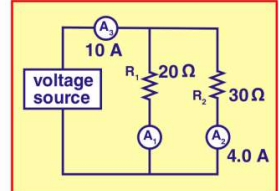


9 Based on the diagram below, what is the potential difference across the source?



A 440 V
B 220 V
C 120 V
D 60 V

10 Based on the diagram below, what is the current reading of ammeter A_1 ?

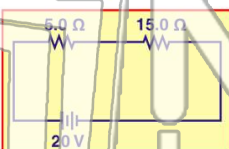


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D 4.0 A



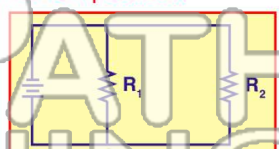
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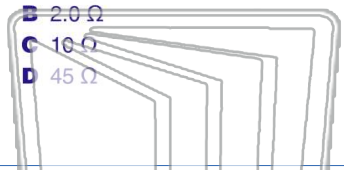


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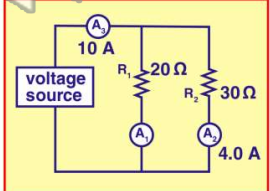


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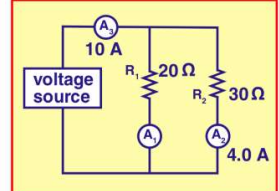


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