Lab Investigations

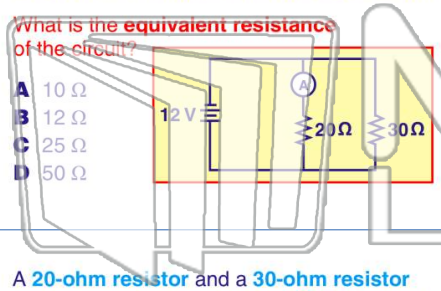
Phys Sci

Name_____ Class_____ Date_____

1 A **20-ohm resistor** and a **30-ohm resistor** are connected in parallel to a **12-volt** battery as shown. An ammeter is connected as shown.

What is the **equivalent resistance** of the circuit?

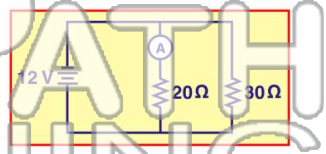
A 10 Ω
B 12 Ω
C 25 Ω
D 50 Ω



2 A **20-ohm resistor** and a **30-ohm resistor** are connected in parallel to a **12-volt** battery as shown. An ammeter is connected as shown.

What is the **current reading** of the ammeter?

A 1.0 A
B 0.60 A
C 0.40 A
D 0.20 A



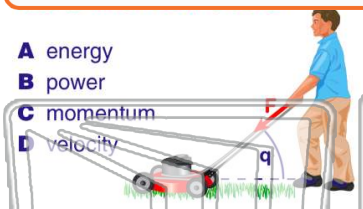
3 A **20-ohm resistor** and a **30-ohm resistor** are connected in parallel to a **12-volt** battery as shown. An ammeter is connected as shown.

4 Which physical **quantity** is correctly paired with its **unit**?

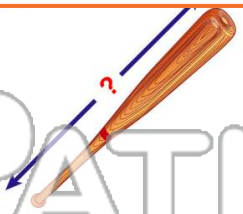
5

7

A energy
B power
C momentum
D velocity



A 10^{-1} m
B 10^{0} m
C 10^{1} m
D 10^{2} m

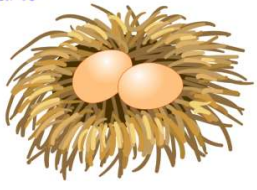


9 A **joule** is equivalent to a

A N•m
B N•s
C N/m
D N/s

10 The **weight** of a chicken egg is most nearly equal to

A 10^{-3} N
B 10^{-2} N
C 10^{0} N
D 10^{2} N



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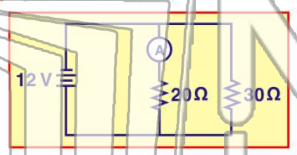

B

2. A **20-ohm resistor** and a **30-ohm resistor** are connected in parallel to a **12-volt** battery as shown. An ammeter is connected as shown.

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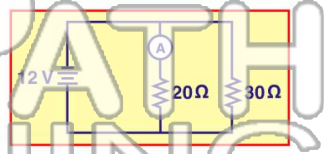

B

3. A **20-ohm resistor** and a **30-ohm resistor** are connected in parallel to a **12-volt** battery as shown. An ammeter is connected as shown.

4. Which physical **quantity** is correctly paired with its **unit**?

D

PREVIEW

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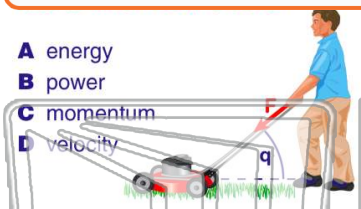
5.

A

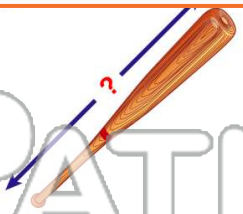
7.

A energy
B power
C momentum
D velocity



D

A 10^{-1} m
B 10^{0} m
C 10^{1} m
D 10^{2} m



B

9. A **joule** is equivalent to a

A N•m
B N•s
C N/m
D N/s

A

10. The **weight** of a chicken egg is most nearly equal to

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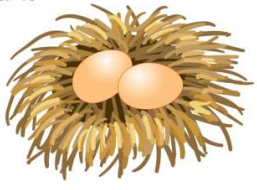

C