**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Regular General Science**

**Secondary IV**

**Exam Review Package**

**December 20th 2017**

**10:55 a.m.—2:25 p.m.**

**Topics**

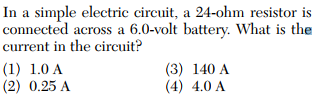
* **Ecotoxicology**
* **Forces**
* **Energy**
* **Electricity**

**Bring to the Exam:**

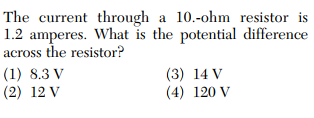
* **Multiple pencils**
* **Eraser**
* **Calculator or 2**
* **Ruler**
* **Kleenex**
* **Cough drops**
* **Water bottle**

**ST Regular General Review December 2017**

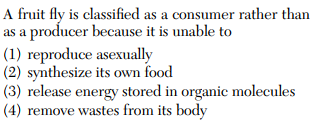
**1)**



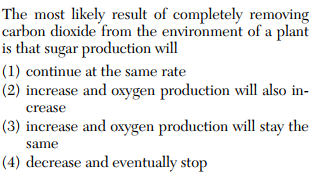
**2)**



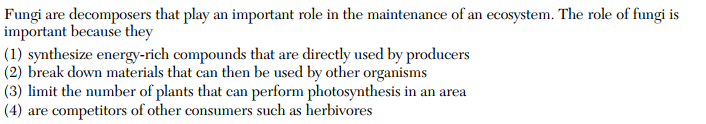
**3)**



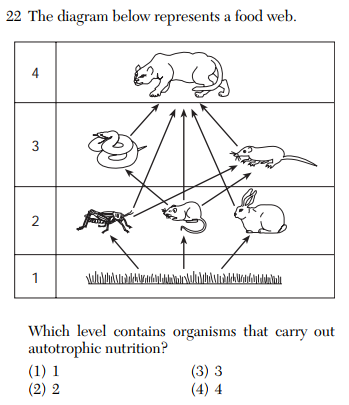
**4)**



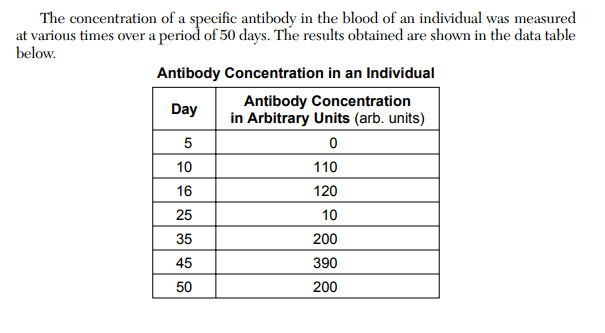
**5)**



**6)**



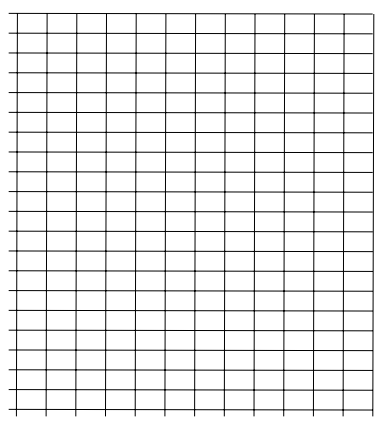
**7)**

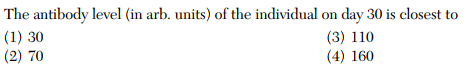


What is the independent variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

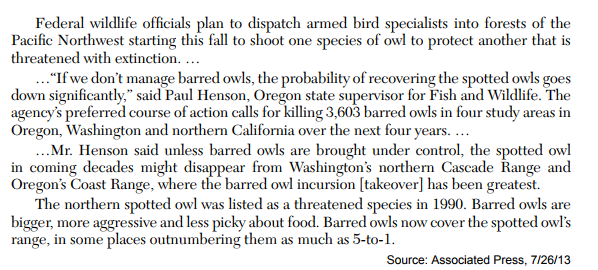
What is the dependent variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

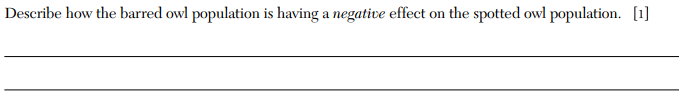
Graph the data:



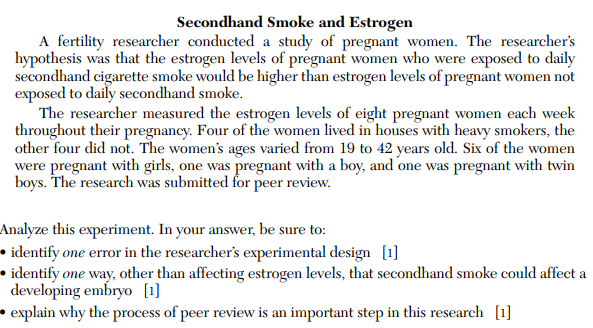


**8)**

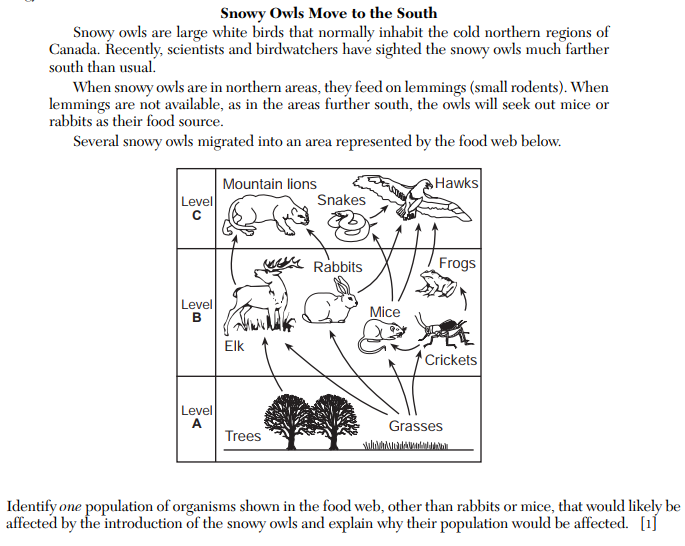




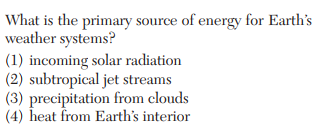
**9)**



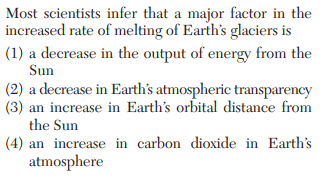
**10)**



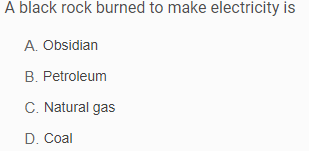
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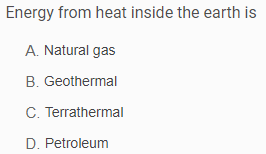
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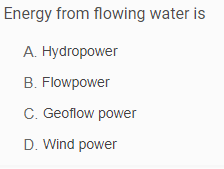
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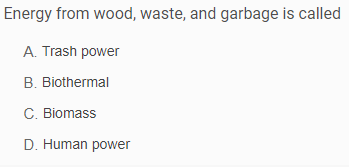
**14)**



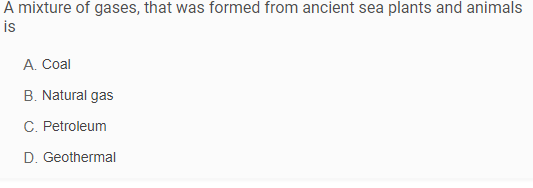
**15)**



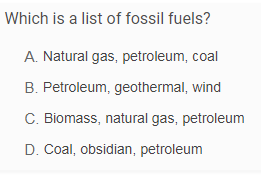
**16)**



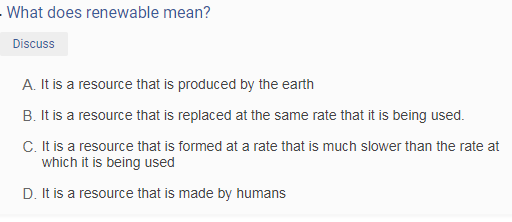
**17)**



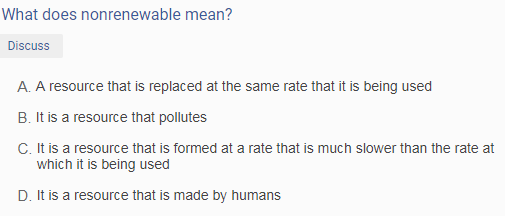
**18)**



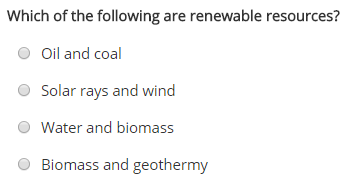
**19)**



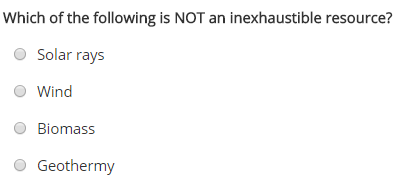
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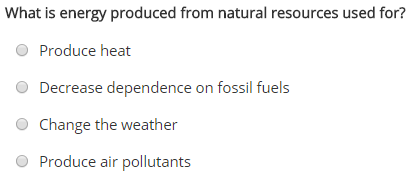
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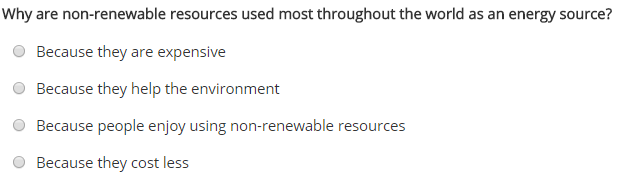
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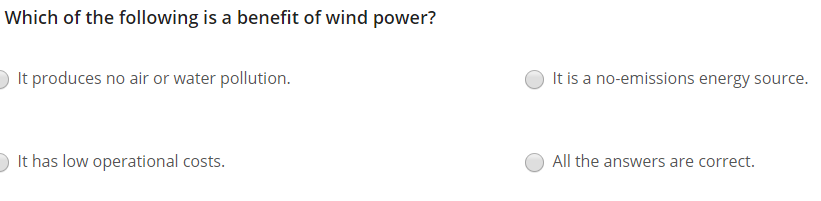
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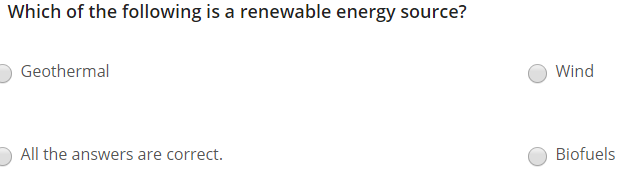


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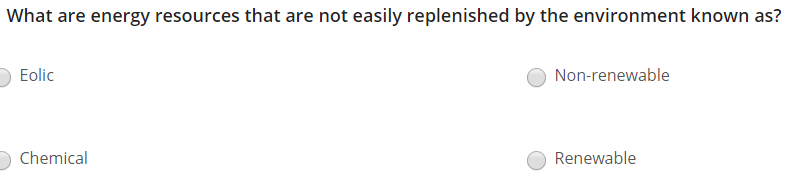


**25)**

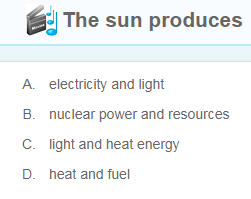


**26)**

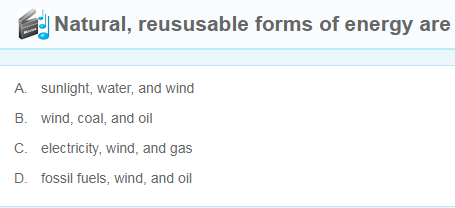
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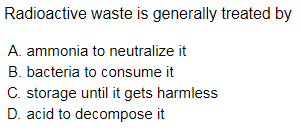
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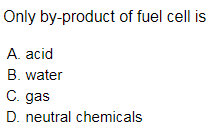
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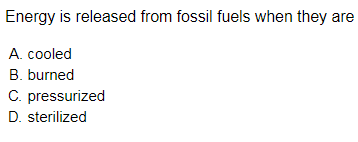
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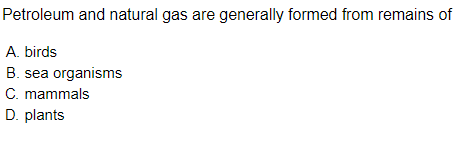
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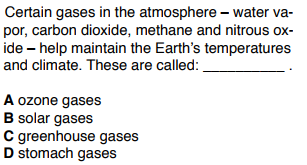
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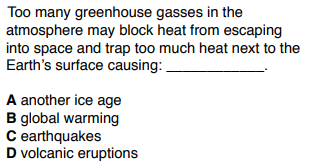
**33)**



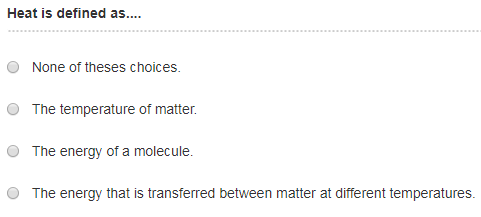
**34)**



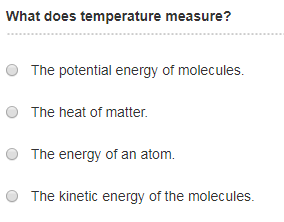
**35)**



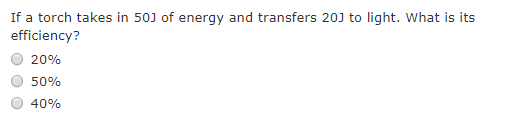
**36)**



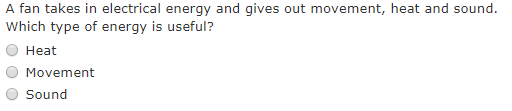
**37)**



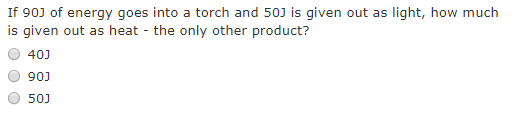
**38)**



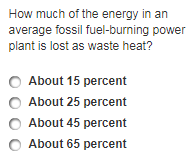
**39)**



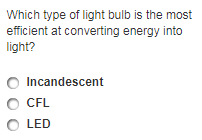
**40)**



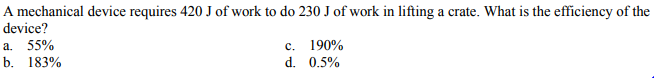
**41)**



**42)**



**43)**



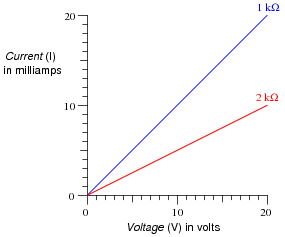
**44)**

What does Ohm’s Law state?

What is wrong with this graph even though the independent and dependent are correct?

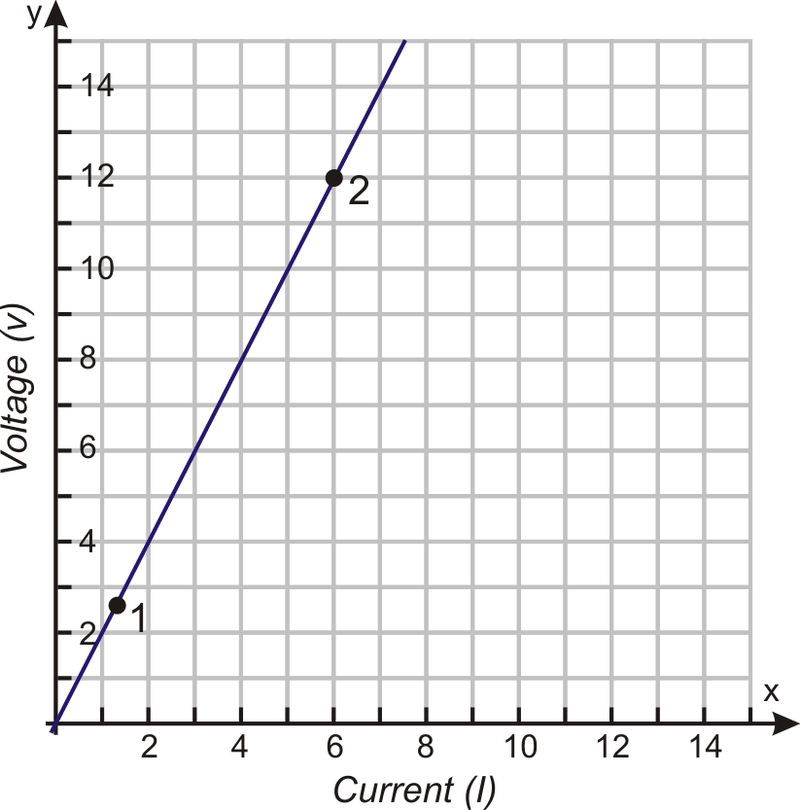
Explain.

Can you calculate resistance ® from this graph? Explain. What would you have to do?



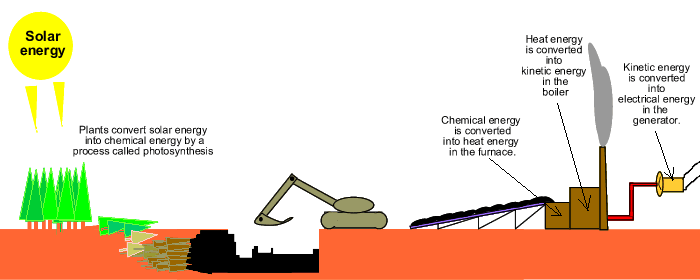
What units do you have to use when doing electricity problems?

**45)** Graph of Voltage vs Current for an Unknown Resistor



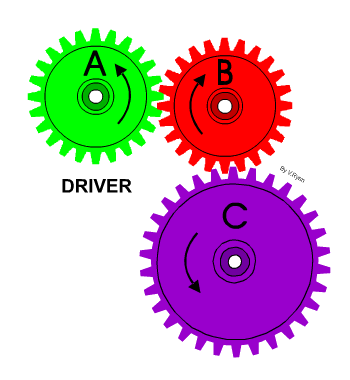
Calculate the resistance of the unknown resistor:

**46)** Indicate the Energy Transformations that take place from start to finish:



**47)**

What would be the gear ratio for the following set of gears?



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