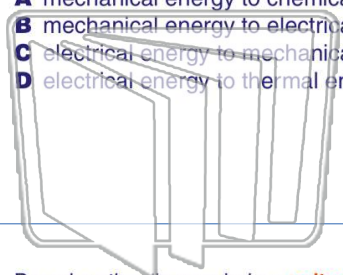




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

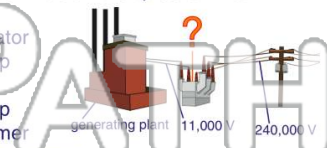
1 A **generator** is able to convert \_\_\_\_\_.

**A** mechanical energy to chemical energy  
**B** mechanical energy to electrical energy  
**C** electrical energy to mechanical energy  
**D** electrical energy to thermal energy



2 The diagram below shows an **electric-generating plant**. Based on information in the diagram, what **device** is drawn below the question mark?

**A** a generator  
**B** a step-up motor  
**C** a step-up transformer  
**D** an electromagnet



3 Based on the diagram below, **voltage** is \_\_\_\_\_ before it enters the **house**.



4 The **device** that **changes the voltage** on the **electrical pole** shown below is a \_\_\_\_\_.

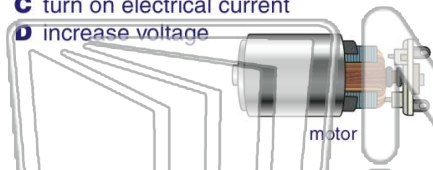


## PREVIEW

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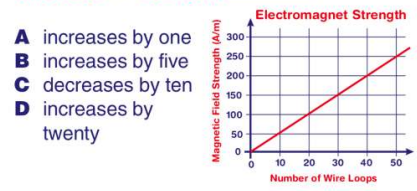
**A** keep an object from moving  
**B** turn an axle  
**C** turn on electrical current  
**D** increase voltage



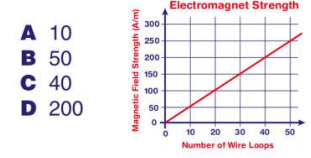
8 True or false?

**A** true  
**B** false

9 In a solenoid, wire is used to create a magnetic field. According to the graph below, with **each wire loop**, the **strength** \_\_\_\_\_.



10 Based on the chart below, approximately **how many loops** of wire would be required to increase the magnetic field strength to **200 amperes/meter**?

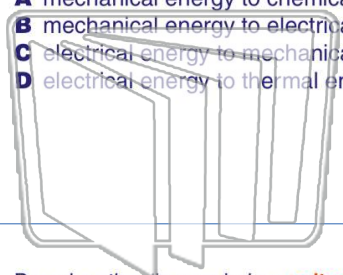




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

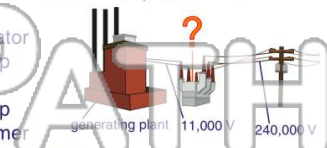
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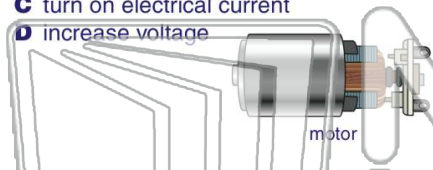


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**B** turn an axle  
**C** turn on electrical current  
**D** increase voltage

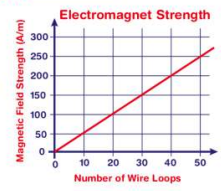


True or false?  
**A** true  
**B** false



9 In a solenoid, wire is used to create a magnetic field. According to the graph below, with **each wire loop**, the **strength** \_\_\_\_\_.

- A** increases by one  
**B** increases by five  
**C** decreases by ten  
**D** increases by twenty



10 Based on the chart below, approximately **how many loops** of wire would be required to increase the magnetic field strength to **200 amperes/meter**?

- A** 10  
**B** 50  
**C** 40  
**D** 200

