



ANSWER KEY

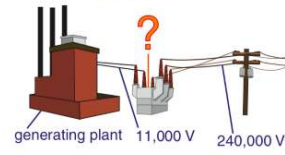
A **generator** is able to convert _____.

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

(b)

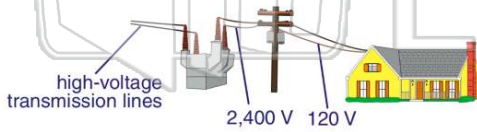
The diagram below shows an **electric-generating plant**. Based on information in the diagram, what **device** is drawn below the question mark?

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



(c)

Based on the diagram below, **voltage** is _____ before it enters the **house**.

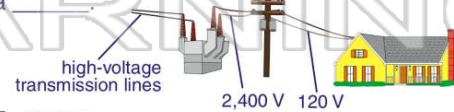


(d)

- A** increased
- B** decreased
- C** induced
- D** changed

The **device** that **changes the voltage** on the **electrical pole** shown below is

- A** motor
- B** step-down transformer
- C** generator

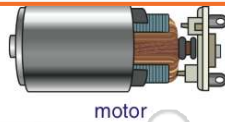


(b)



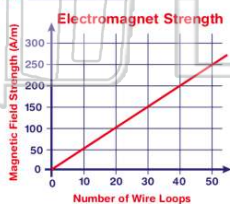
PREVIEW

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

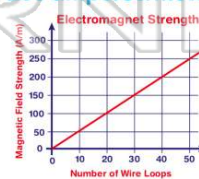
- A** increases by one
- B** increases by five
- C** decreases by ten
- D** increases by twenty



(b)

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



(c)