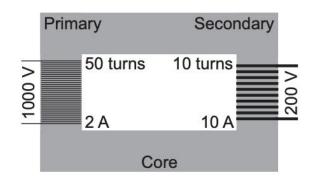
Question 9 (6 marks)

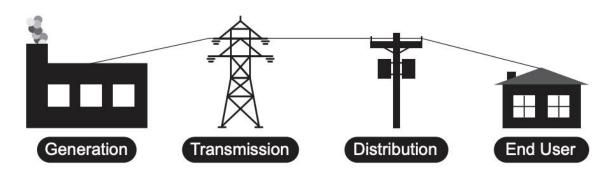


Transformers are an important element of electricity transmission.

(a) Is the transformer in the diagram above a step-up or step-down transformer? Circle your answer. (1 mark)

A. Step-up

B. Step-down



- (b) Where would be the **most** likely placement of such a transformer in the electricity transmission process? Circle your answer. (1 mark)
 - A. After generation
- B. After transmission
- C. After distribution
- (c) Use a calculation to show how the transformer is 100% efficient. (2 marks)

(d) In real life, 100% efficiency is impossible to achieve. Describe one way transformers lose efficiency. (2 marks)