

### **Answer on Question #40724 – Math – Other**

Explain what inductive and deductive logic are, and illustrate them in the context of measuring time.

#### **Answer.**

*Deductive logic* is the process of reasoning from the general to the specific.

*Inductive logic* is the process of reasoning from the specific to the general.

In contrast to inductive reasoning, the conclusions of deductive reasoning are as valid as the initial assumption. In contrast to deductive reasoning, conclusions arrived at by inductive reasoning do not necessarily have the same validity as the initial assumptions.

Example of deductive reasoning in the context of measuring time:

*If right now is noon, then twelve hours later will be midnight.*

Example of inductive reasoning in the context of measuring time:

*He goes to the shop every day.*

*He will go to the shop tomorrow.*