

Computer Logic 2

1. What is a CPU register?

2. An 8 bit register holds the binary pattern 01000001.

a. What will be the value stored in the register after an Arithmetic Shift Left?

b. Therefore what does an Arithmetic Shift Left do to a number?

c. Convert the original number and the answer of (a) to decimal to justify your answer:

3. Registers are limited to storing a certain range of values.

a. What is the range of an 8-bit register?

b. Use 8-bit binary to add 34 and 244.

c. If the result of your calculation in (b) was to be stored in an 8-bit register, what type of error would it generate?
