

# Practice problems on Number Systems

1. Convert the following decimal number to octal (i.e. base 8).

122

<b>Ans:</b>		<u>quotient</u>	<u>remainder</u>
	122/8	15	2
	15/8	1	7
	1/8	0	1

Hence: 122 in decimal is 172 in octal

2. Convert the octal number obtained in #1. to 8-bit binary number.

<b>Ans:</b>	<u>1</u>	<u>7</u>	<u>2</u>	—————>	0111 1010
	001	111	010		

3. Convert the decimal number in #1. to hexadecimal number (i.e. base 16).

<b>Ans:</b>		<u>quotient</u>	<u>remainder</u>
	122/16	7	10
	7/16	0	7

Digit 10 is represented as digit "A" in hexadecimal, —————> 7A