12. Multiple choice. Pick the correct answer than PROVE it is correct. If n is an integer with $n \mod 3 = 1$, then $\lfloor n/3 \rfloor$ is equal to

(a)
$$(n+1)/3$$
, (b) $n/3$, (c) $(n-1)/3$, (d) $(n-2)/3$.
We are told $n=3k+1$, $soln = 3k+1 = 2k+3 = 2k = n-1 = 3$

- 13. Write 46 in base 16. 46= 2.16 + 14 which is 2E/6
- 14. A coin is tossed 10 times. What is the probability that exactly 6 of the toses will land as heads?

Universe is the # of words ------ make from the alphabet T, H

Scicces is # or words with exactly 6 #

15. Are $p \wedge (q \vee r)$ and $(p \wedge q) \vee r$ logically equivalent? Justify your answer.

No	P % r	Pn (8Vr)	(8 ng) V r	
	TTT	1	T	. 110
	TTF	Œ	E S	= differen
	TFF	F	F	11919
	FIT	F	DE	Values
	FTF	F	F	
	FFF	F	F	