Assignment 7: Part 1: *9.2*: 11c, 14c,e, 17

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11c. How many bit strings of length 8 begin and end with a 1?

- 14. Suppose that in a certain state, all automobile license plates have 4-letters followed by three digits.
 - c. How many license plates could begin with TGIF?
 - e. How many license plates could begin with AB and have all letters and digits distint?

c.
$$TGIF /// = 10^3 = 1000$$

e. AB (L)(L)
$$(N)(N)(N) = 24.23.10.9.8 = 367,440$$

17. a. How many integers are there from 1000 through 9999?

- b. How many old integers are there from 1000 through 9999?
- c. How many integers from 1000 through 9999 have distint digits?
- d. How many odd integers from 1000 through 9999 have distint digits?
- e. What is the probability that a randomly chosen four digit integer has distint digits! has distint digits and is odd?

Assignment 7: Part 1: *9.3*: 5, 24, 33e,f

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- 5. a. How many five-digit integels (integers from 10,000 through 99,999) are divisible by 5?
 - b. What is the probability that a five-digit is chosen at random is divisible by 53.
 - a. 9<10×10×10×2 = 18000
 - b. 18060/90000 = 20%
- 24. a. How many integers from 1 through 1000 are multiples of 2 or multiples of 9%.
 - b. Suppose an integer from 1-through 1000 is chosen at random. Use the result of part (a) to find the probability that the integer is a multiple of 2 or 9.
 - c. How many integers from 1 through 1,000 are neither multiples of 2 nor multiples of 9?

b. 556/1000 =

55.6%=

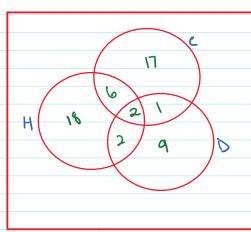
a.
$$1600/2 = 500$$

 $1000/9 = 111$

- 23. e. How many students chedeed #2 and #3 but not #1?
 - F. How many students chedered #2 but neither of

· H= 28

$$H + (+) = 2$$



Sample of Students 160 Lutal Q. \

C. 1000 -556 =

f. 17