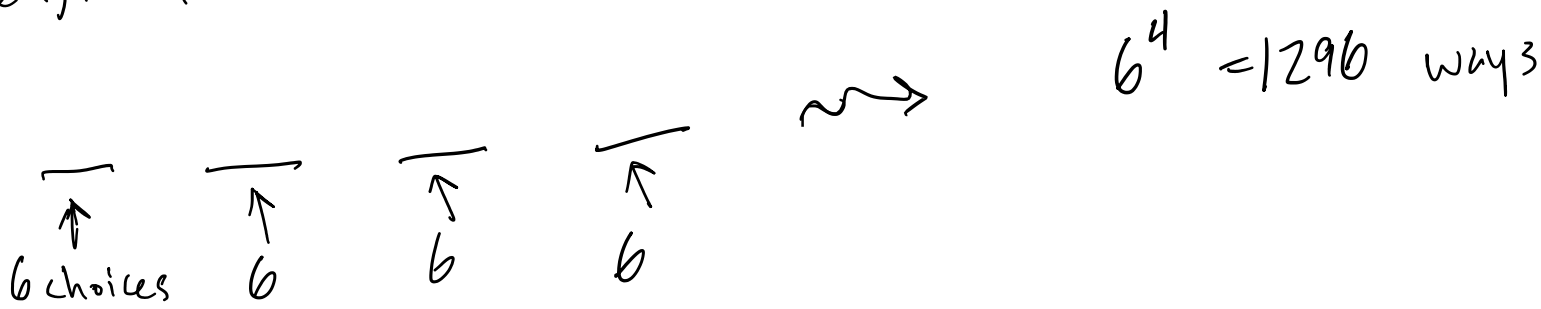


§3.2 1 2 4 8  
§3.3 9, 11

§3.2 #1 lists made from letters T, H, E, O, R, Y, repetition allowed

(a) length 4 lists



(b) length 4 lists starting w/ T

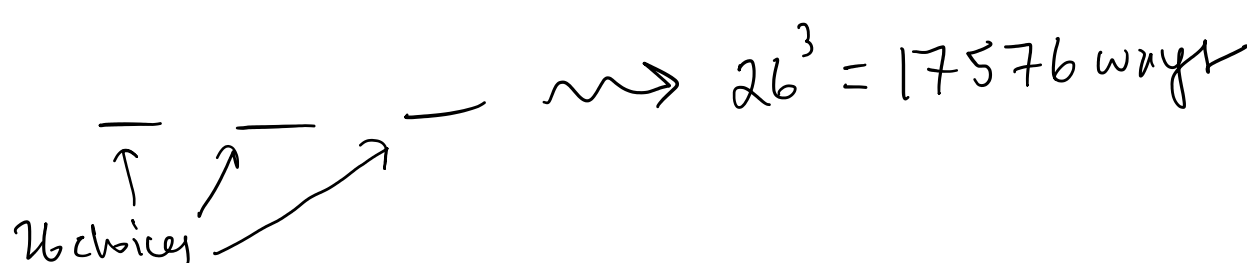


(c) length 4 lists not starting w/ T

11  
 $(\# \text{ length 4 lists}) - (\# \text{ length 4 lists starting w/ T}) = 1296 - 216 = 1080 \text{ ways}$

#2 # of 3-letter codes

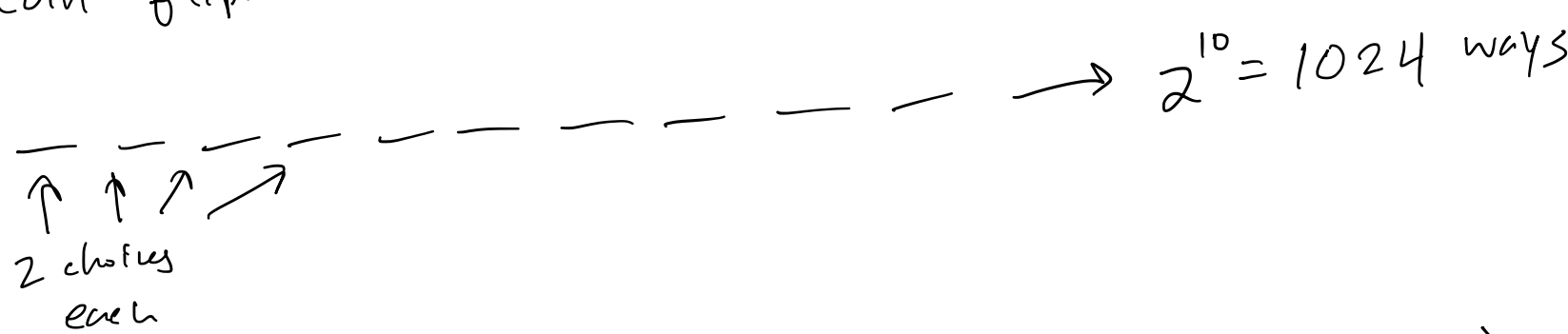
26 letters of alphabet, repetition allowed:



#4



#8 10 coin flips



§3.3 #11 #integers b/w 1 and 1000 divisible by 5  
ends with 5 or 0

38  
18  
56

length 1 + length 2 + length 3 + length 4 = 1 + 18 + 38 + 1 = 58 numbers  
only 5 only 1000

