



Topic/Objective: 3.5 PROBABILITY TREES

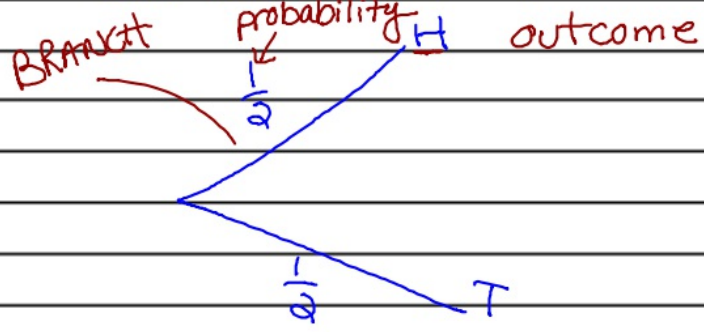
Name: _____
Class/Period: 4
Date: 1/11/17

Essential Question: How do we use a probability tree?

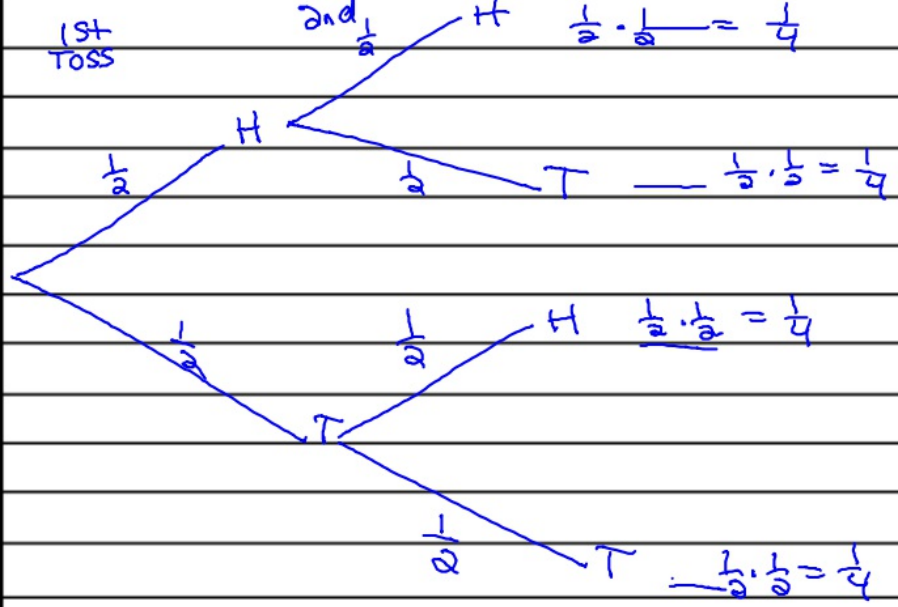
Questions:

Notes: WITH REPLACEMENT

coin toss (1 time)



REPEATED EVENT: TOSS COIN TWICE



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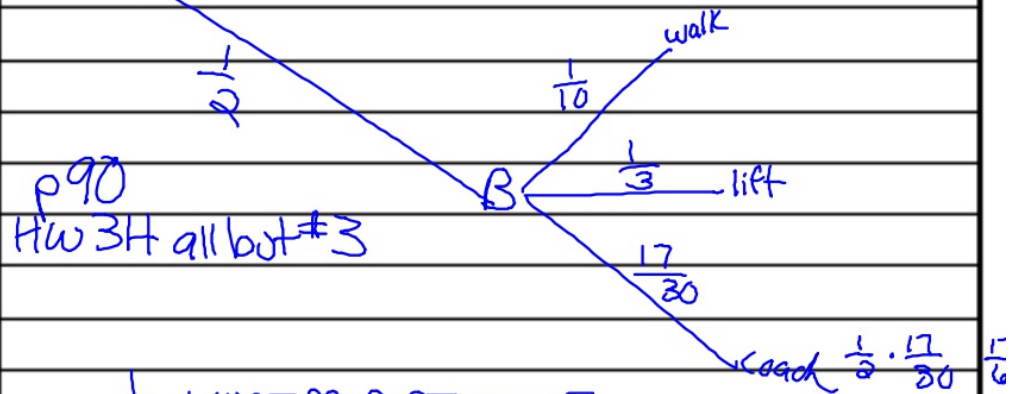
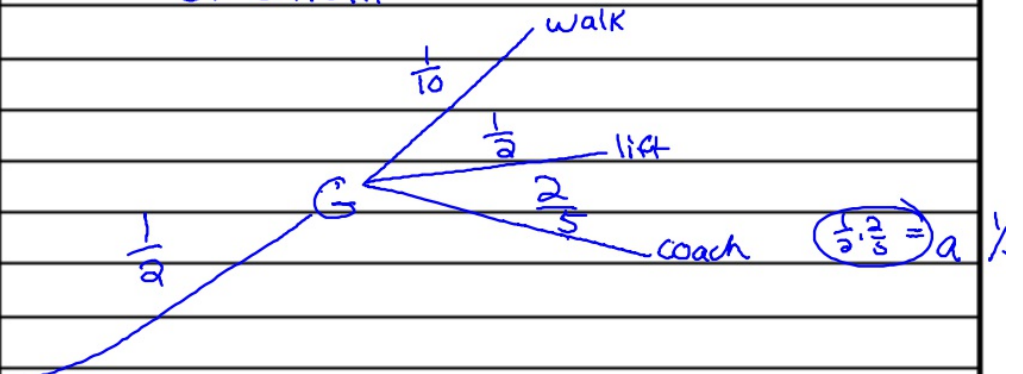
Questions:

#3

Notes:

EX) AN EQUAL NUMBER OF BOYS AND GIRLS IN A SCHOOL, $\frac{1}{10}$ OF BOYS WALK AND $\frac{1}{10}$ OF GIRLS WALK. $\frac{1}{3}$ OF BOYS AND $\frac{1}{2}$ OF GIRLS GET A LIFT, THE REST COME BY COACH.

a. DETERMINING THE PROPORTION OF THE POPULATION THAT ARE GIRLS THAT COME BY COACH.



p90
HW 3H all but #3

b. WHAT PROPORTION OF THE STUDENTS COME BY COACH?

$$\frac{17}{60} + \frac{1}{5} = \frac{29}{60}$$

#6 DESIGN TECH = D

SPANISH = S

$$P(D \cap S) = .1$$

$$P(D) = 0.6$$

$$P(S | \underline{D}) = ?$$

$$\frac{P(D \cap S)}{P(S)} = \frac{0.1}{\cancel{P(S)}}$$

$$= \frac{P(S \cap D)}{P(D)} = \frac{0.1}{0.6}$$

$$= \frac{1}{6}$$

#9

$$P(W_2 | B_1) = ? \quad \frac{P(B_1 \cap W_2)}{B_1} = \frac{.34}{.47}$$

$$P(B_1 \cap W_2) = .34$$

$$= \frac{34}{47}$$

$$P(B_1) = .47$$