

Name: Key
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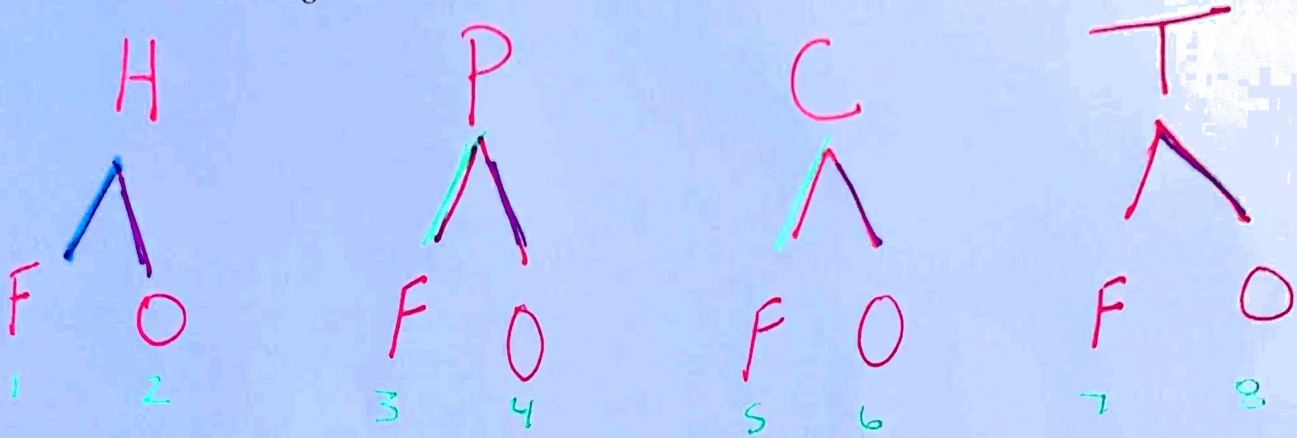
Date: _____
HOMEWORK 9.6

Compound Events (Tree Diagram)

(#1-5) Use the information below to answer the following questions.

The crazy Chef Café offers the following lunch specials: hamburger, pizza, chicken or tuna.
The special comes with either French fries or onion rings.

1) Make a tree diagram.



8 total outcomes

2) List the sample space.

{HF, HO, PF, PO, CF, CO, TF, TO}

3) Find the probability of hamburger and French fries.

$\frac{1}{8}$

4) P (onion rings) = $\frac{4}{8}$

5) P(pizza or chicken with French fries) = $\frac{2}{8}$

6) If Baskin & Robins offers 10 flavors, 4 cones, and 8 toppings, how many possible outcomes are there? (HINT: use the fundamental counting principle)

$$\text{Flavors} \times \text{Cones} \times \text{Toppings} \\ 10 \times 4 \times 8 = 320$$