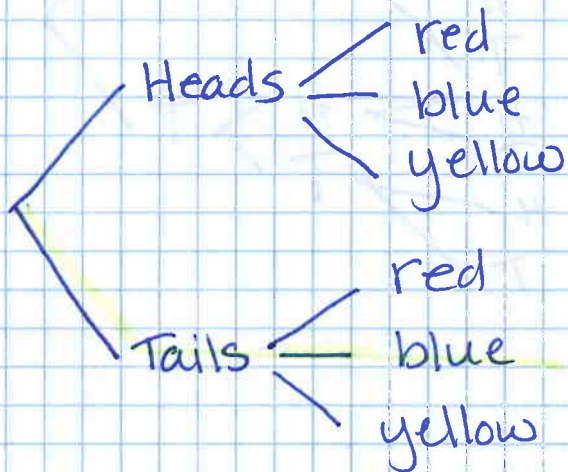


10.2 Probability Day 3

Tree Diagrams - use to organize data.

Ex → Flip a coin, then draw a red, blue or yellow marble:



Tree diagram
all possible outcomes

a) how many paths are there?

Path from start to finish

6 paths (HR, HB, HY, TR, TB, TY)

b) How many paths lead to a red marble?

2 paths to red

c) mark Tails, blue

d) $P(\text{Tails, blue}) = \frac{1}{6} = \frac{\text{ways}}{\text{paths}}$

Example 2: Draw a tree diagram of flipping a coin 3 times in a row.

