

## L36 : Ratio

comparison of 2 #'s

"to"

boys to girls

### Rules

- 1) order asked = order written
- 2) often written as a fraction
- 3) reduce fraction, but keep as improper fraction  
no mixed #'s

7-1 6 boys, 4 girls

boy to girl ratio?

$$\frac{6}{4} = \left(\frac{3}{2}\right)$$

girl to boy ratio?  
 $\frac{2}{3}$

boy to student ratio

$$\frac{6}{10} = \left(\frac{3}{5}\right)$$

Team won  $\frac{4}{7}$  of it's games.  
what is the win-loss ratio?  
(4) (3)

$$\left(\frac{4}{3}\right) \quad 4:3$$

4 to 3

# Sample Space

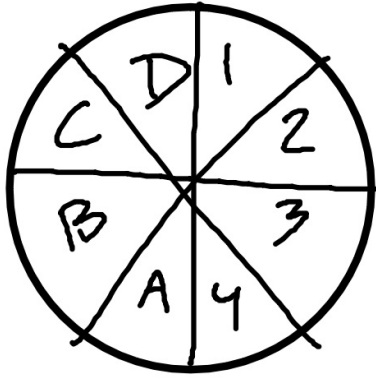
all possible outcomes of an event.

Flip a coin

Heads or Tails

# cube

1, 2, 3, 4, 5, 6

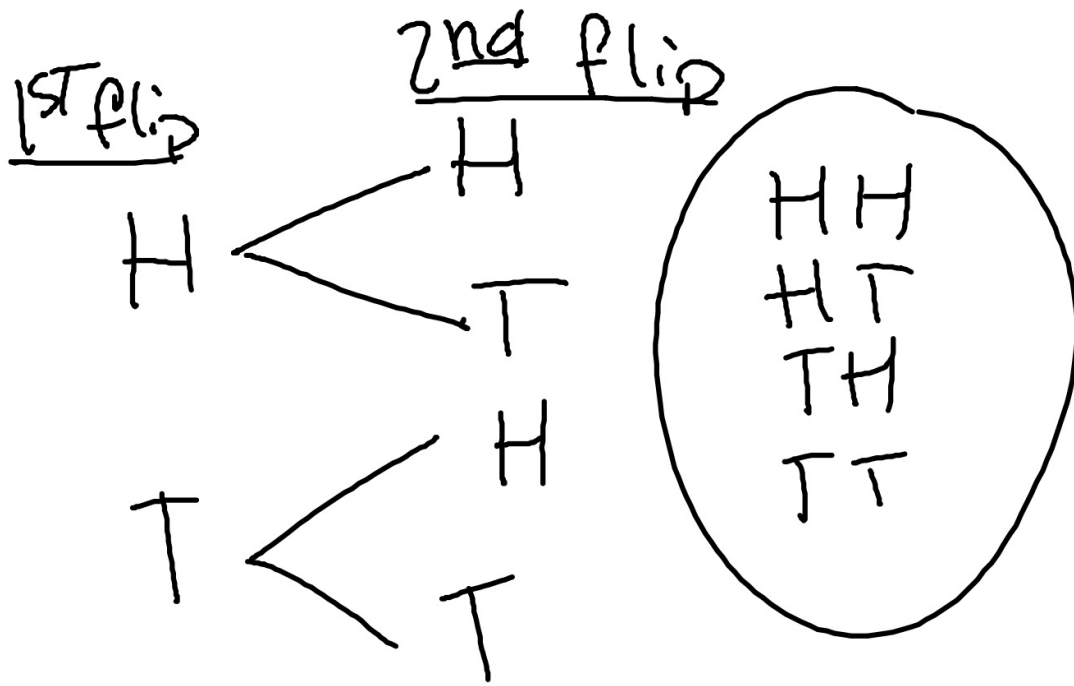


1, 2, 3, 4, A, B, C, D

## Flip coin twice

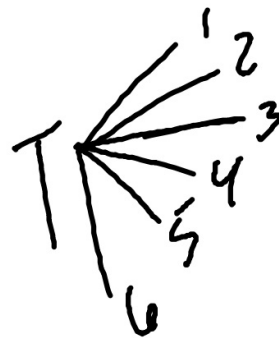
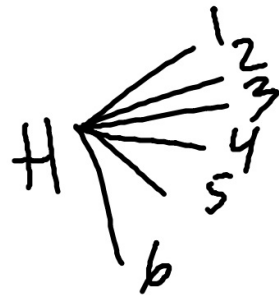
| <u>1<sup>st</sup> flip</u> | <u>2<sup>nd</sup> flip</u> |   | <u>1<sup>st</sup></u> |    |
|----------------------------|----------------------------|---|-----------------------|----|
|                            |                            |   | H                     | T  |
| H                          | H                          | H | HH                    | TH |
| T                          | T                          | T | HT                    | TT |

HH, HT, TH, TT



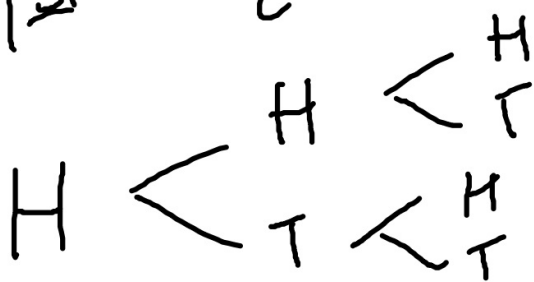
flip a coin, roll a # cube

|   | 1  | 2  | 3  | 4  | 5  | 6  |
|---|----|----|----|----|----|----|
| H | H1 | H2 | H3 | H4 | H5 | H6 |
| T | T1 | T2 | T3 | T4 | T5 | T6 |



flip a coin 3 times

1<sup>st</sup>            2<sup>nd</sup>            3<sup>rd</sup>



HHH

HHT

HTH

HTT

T HH

T HT

T TH

T TT