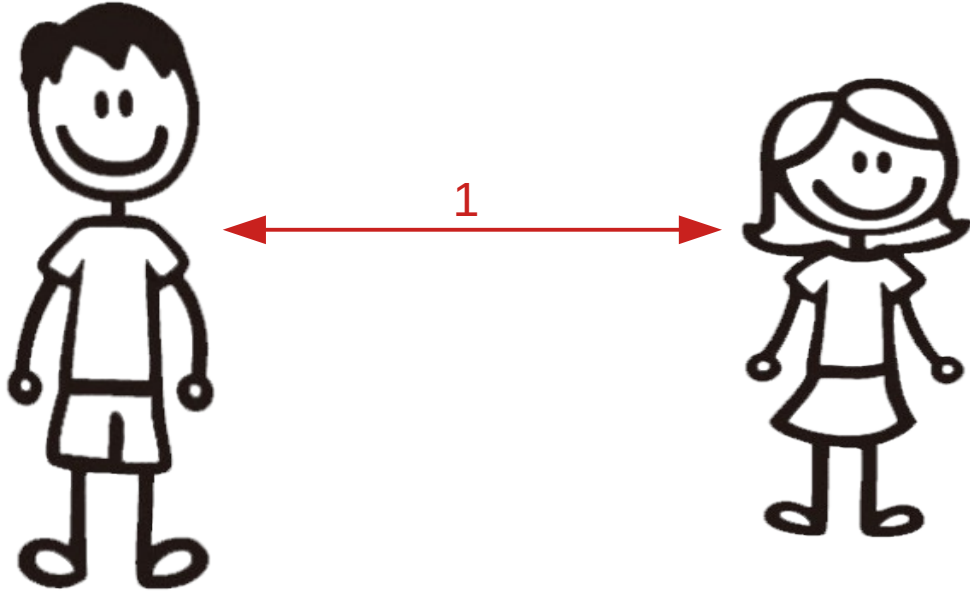
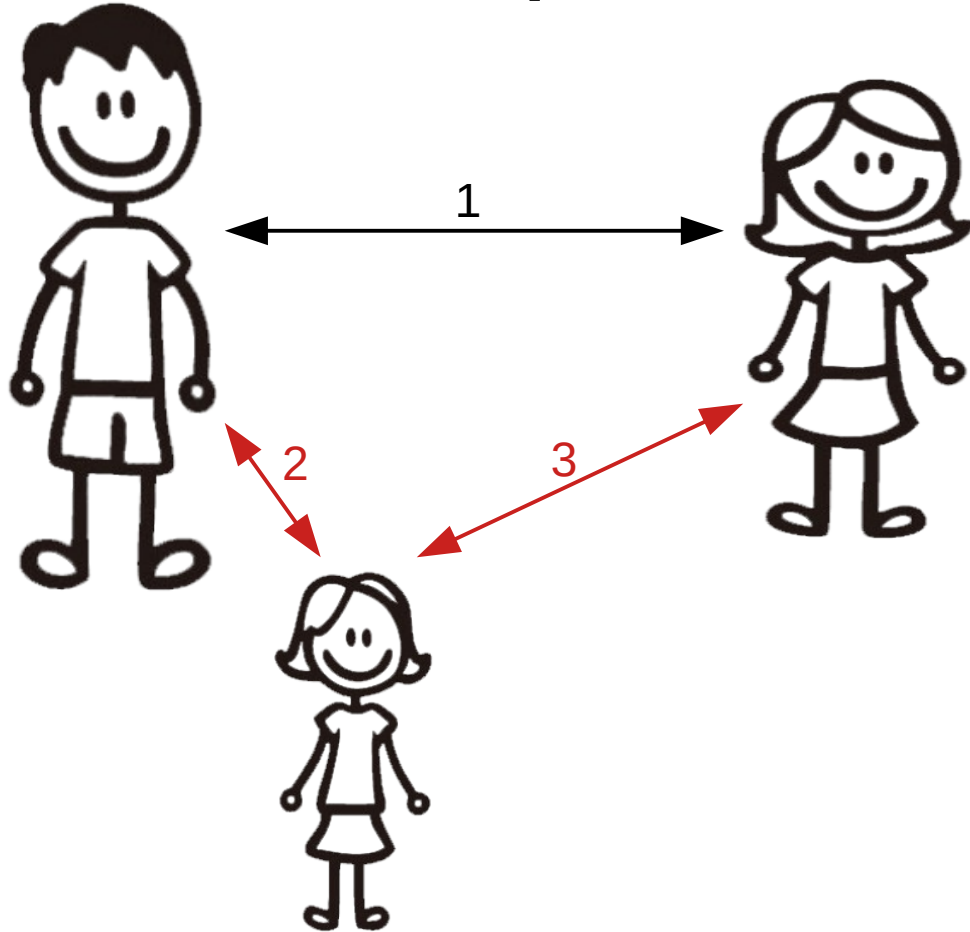


# Relationships can add up quickly...



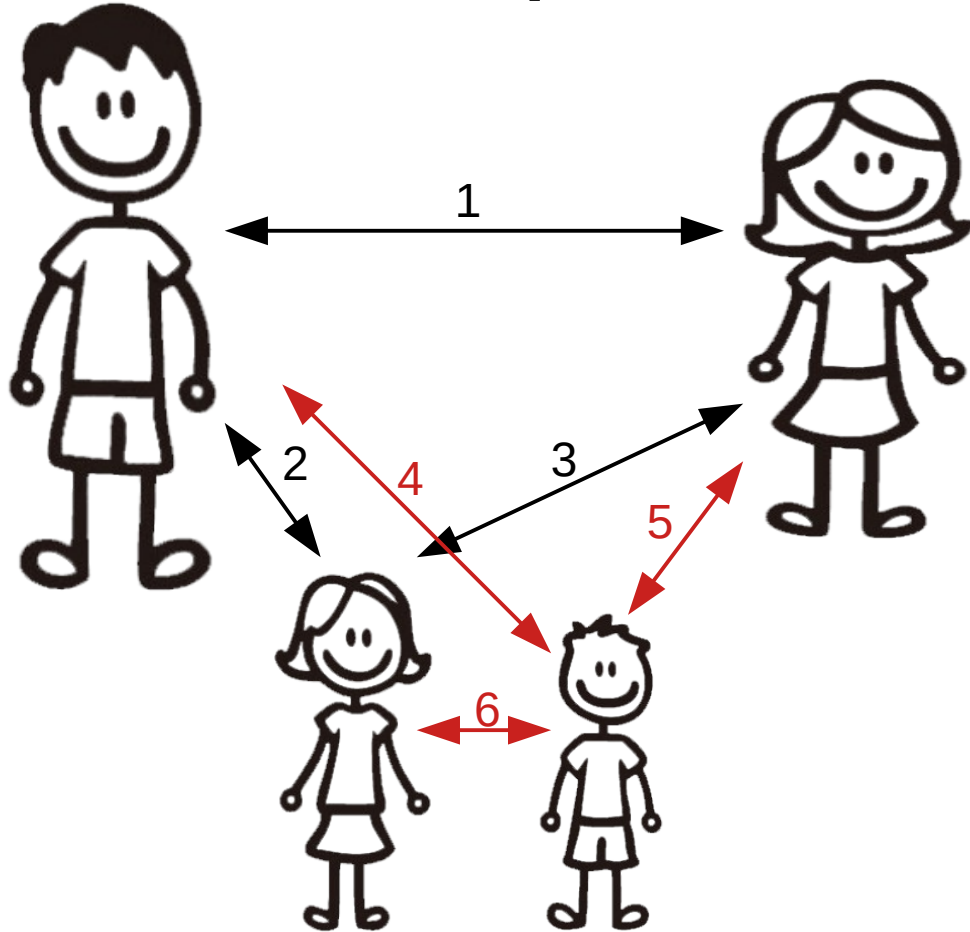
2 people  
1 relationship

# Relationships can add up quickly...



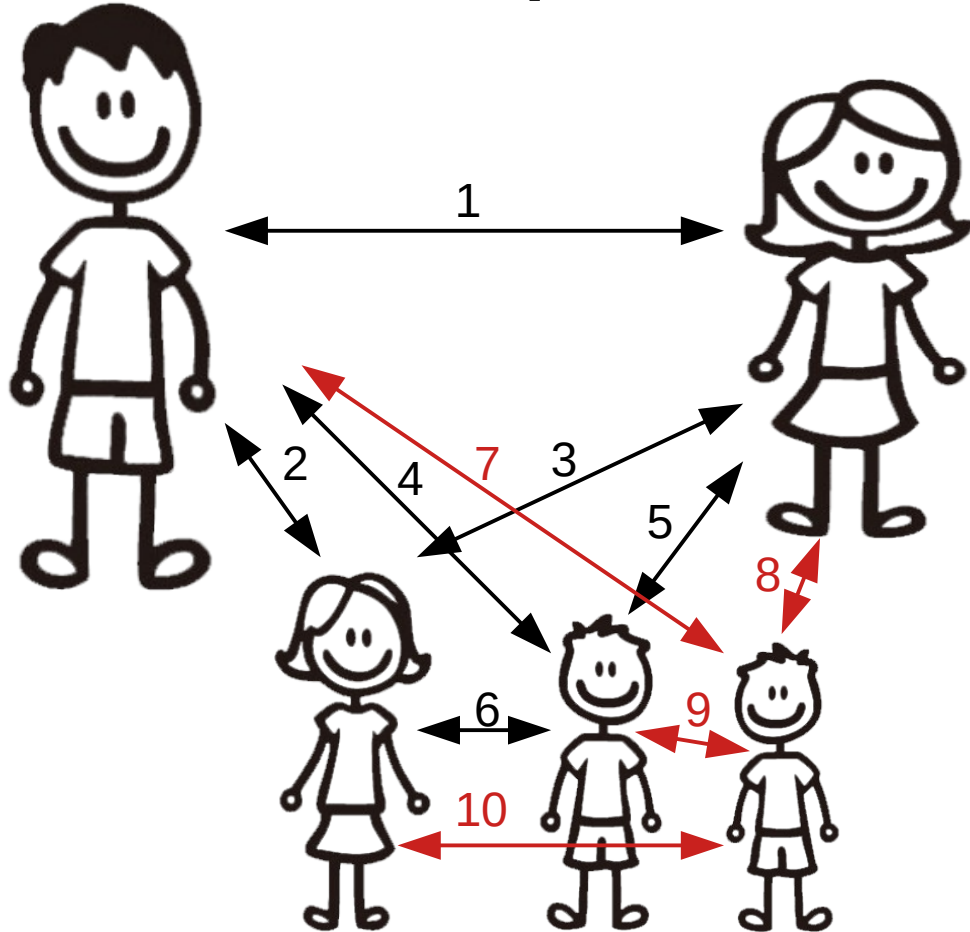
3 people  
3 relationships

# Relationships can add up quickly...



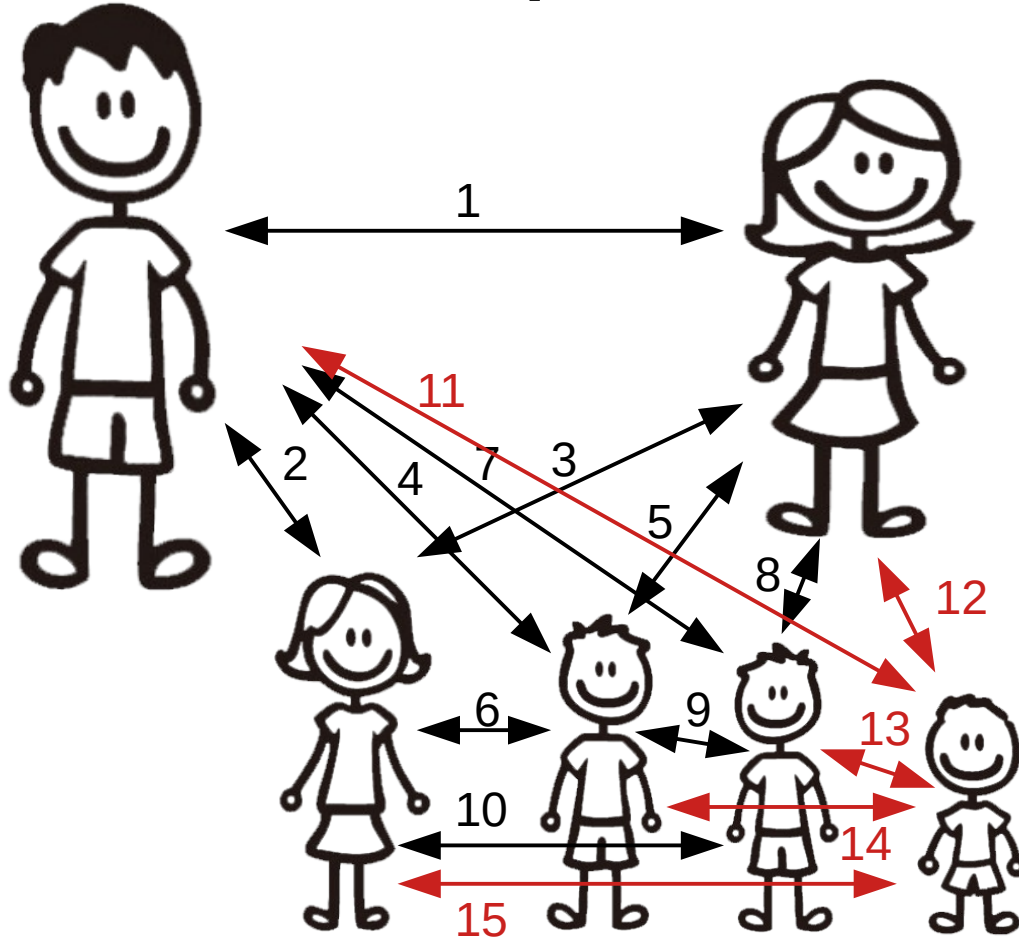
4 people  
6 relationships

# Relationships can add up quickly...



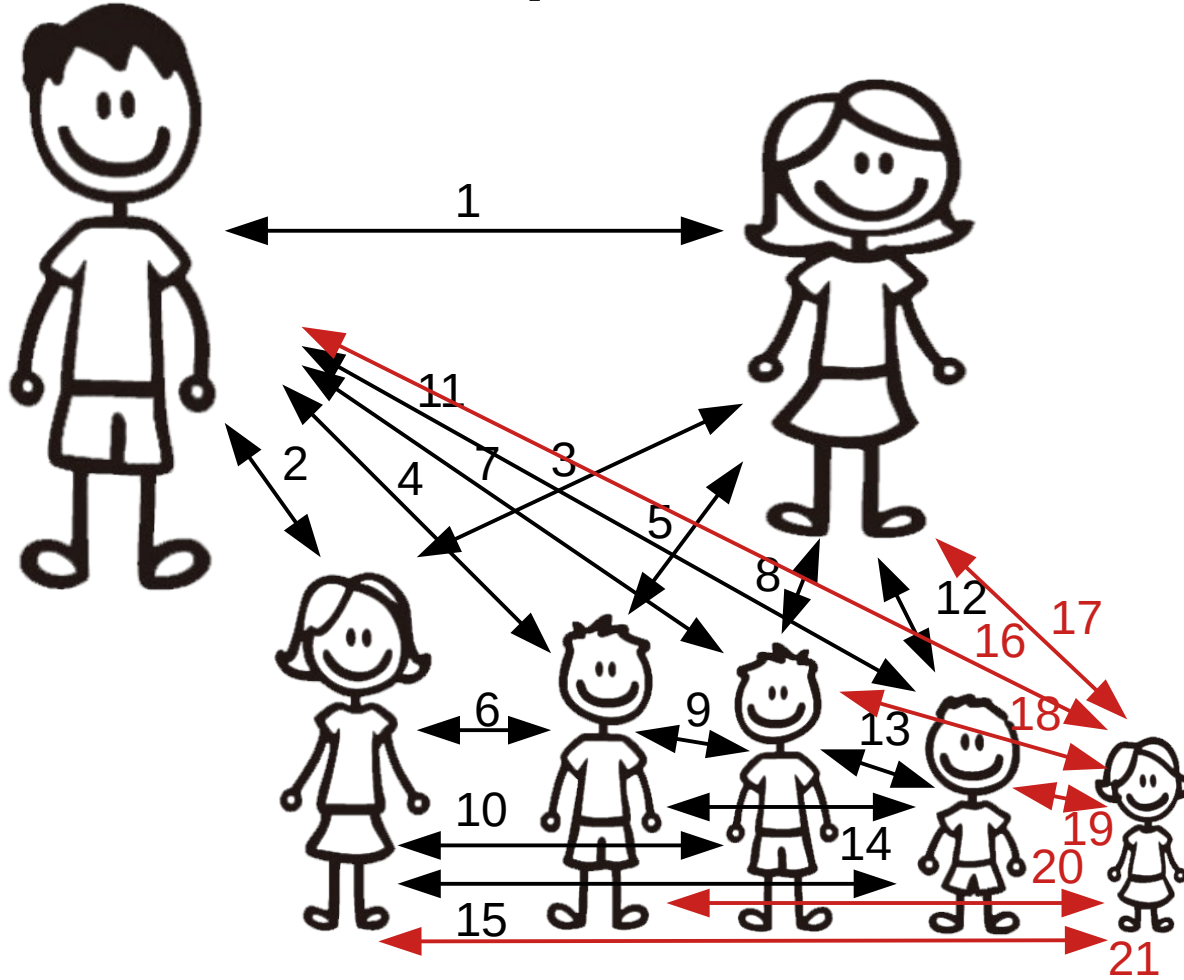
5 people  
10 relationships

# Relationships can add up quickly...



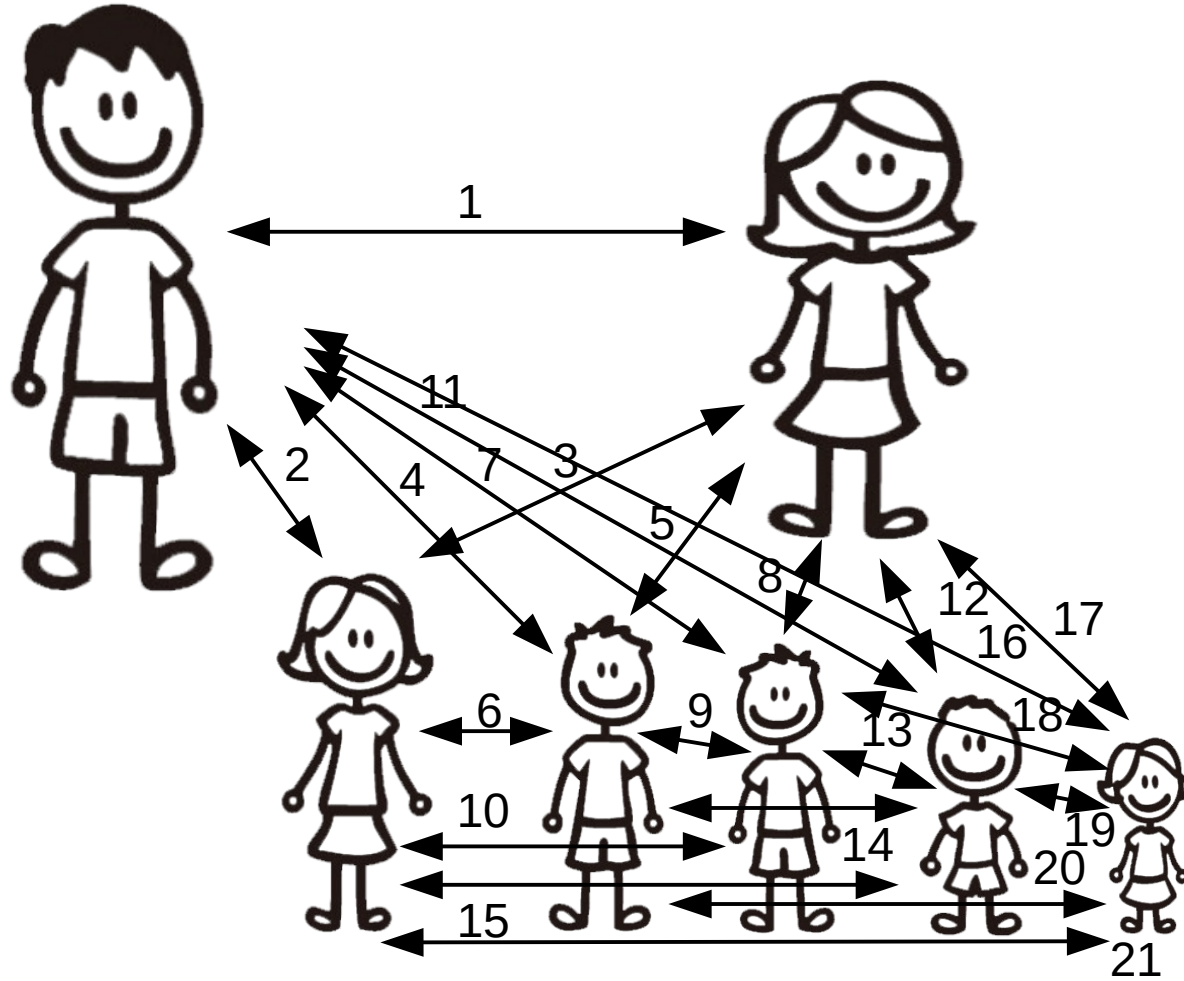
6 people  
15 relationships

# Relationships can add up quickly...



7 people  
21 relationships

# That doesn't even count the dogs!



7 people  
21 relationships

???????



The number of relationships is exponential.

$$R = \frac{N(N - 1)}{2}$$