

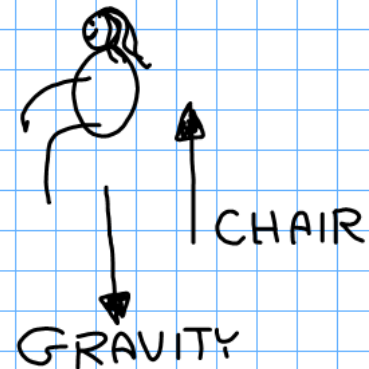
2/17/12

# FREE BODY DIAGRAMS (FBD)

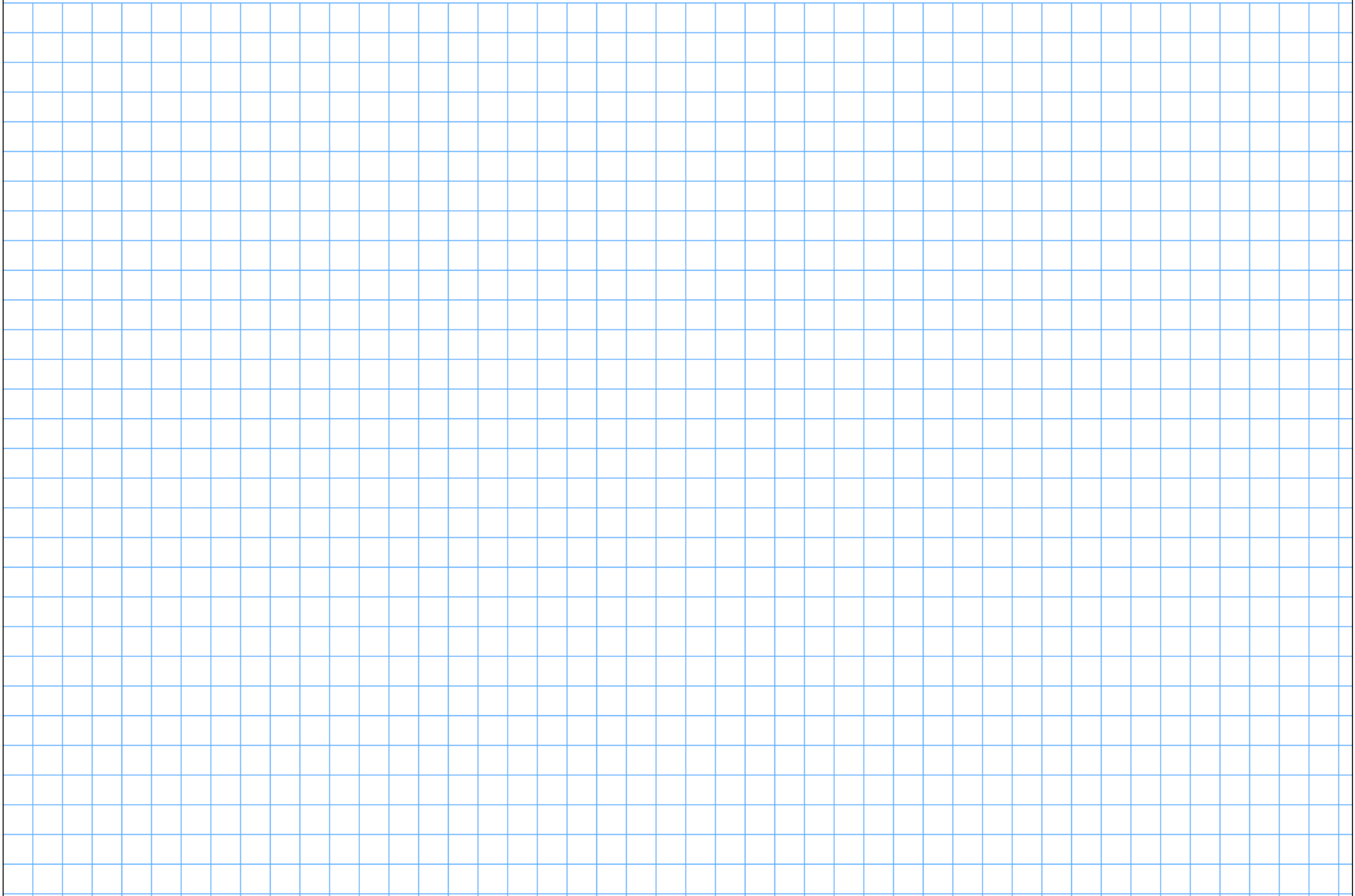
A FBD SHOWS ALL FORCES ACTING  
ON ONE OBJECT.

- FORCES ARE REPRESENTED WITH  
ARROWS .

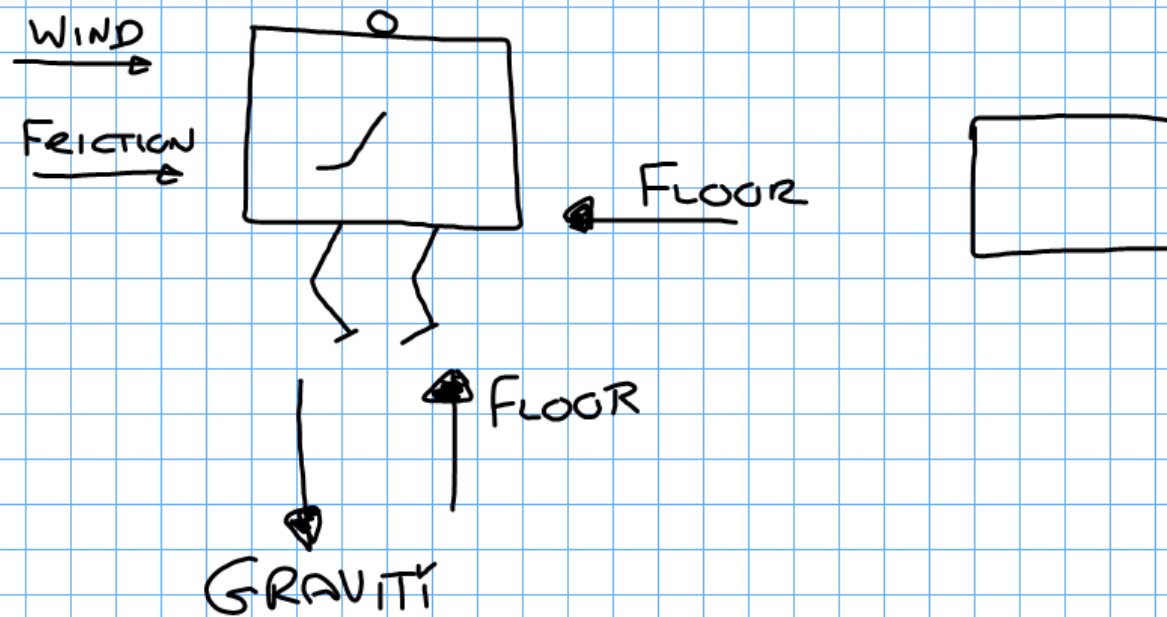
FBD OF KENZIE  
SITTING IN A CHAIR



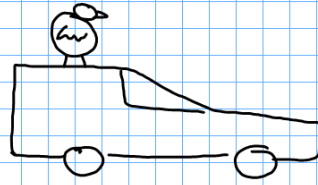




# FBD OF Mr BREGAR MOVING @ CONSTANT SPEED THROUGH THE ROOM



#1

ANSWER #1

CHICKEN

CHICKEN DOES NOT SLOW DOWN BECAUSE  
THERE IS NO UNBALANCED FORCE.

ANSWER #2

CHICKEN

← AIR RESISTANCE

CHICKEN SLOW DOWN BECAUSE OF THE  
UNBALANCED FORCE OF AIR RESISTANCE.

ANSWER #3

CHICKEN

← AIR RESISTANCE



GRAVITY

CHICKEN SLOWS DOWN SIDWAYS & FALLS TOWARD  
THE GROUND BECAUSE OF THE UNBALANCED FORCES  
OF GRAVITY & AIR RESISTANCE.