NEWTON'S 2ND LAW

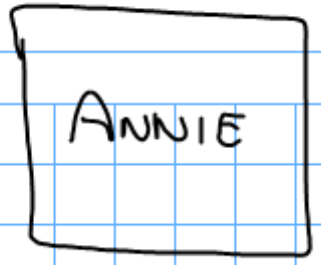
$$\frac{F_{NET}}{m} = \frac{m \times a}{m}$$

$F_{NET} \div m = a$

NEWTONS kg m/s^2 m/s/s

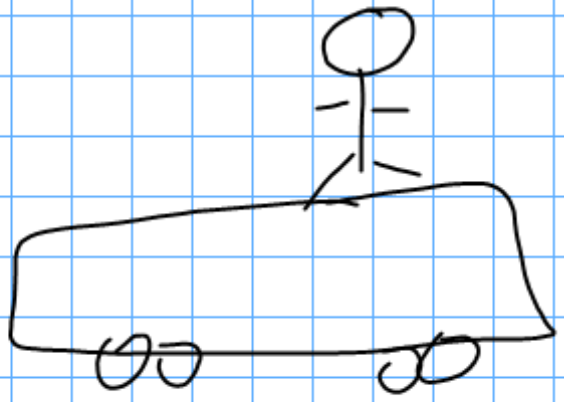
STUDY GUIDE #1 ANSWERS

1)



→ ANNIE CONTINUES TO MOVE AT 7 km/s BECAUSE THERE IS NO UNBALANCED FORCE.

→ 7 km/sec

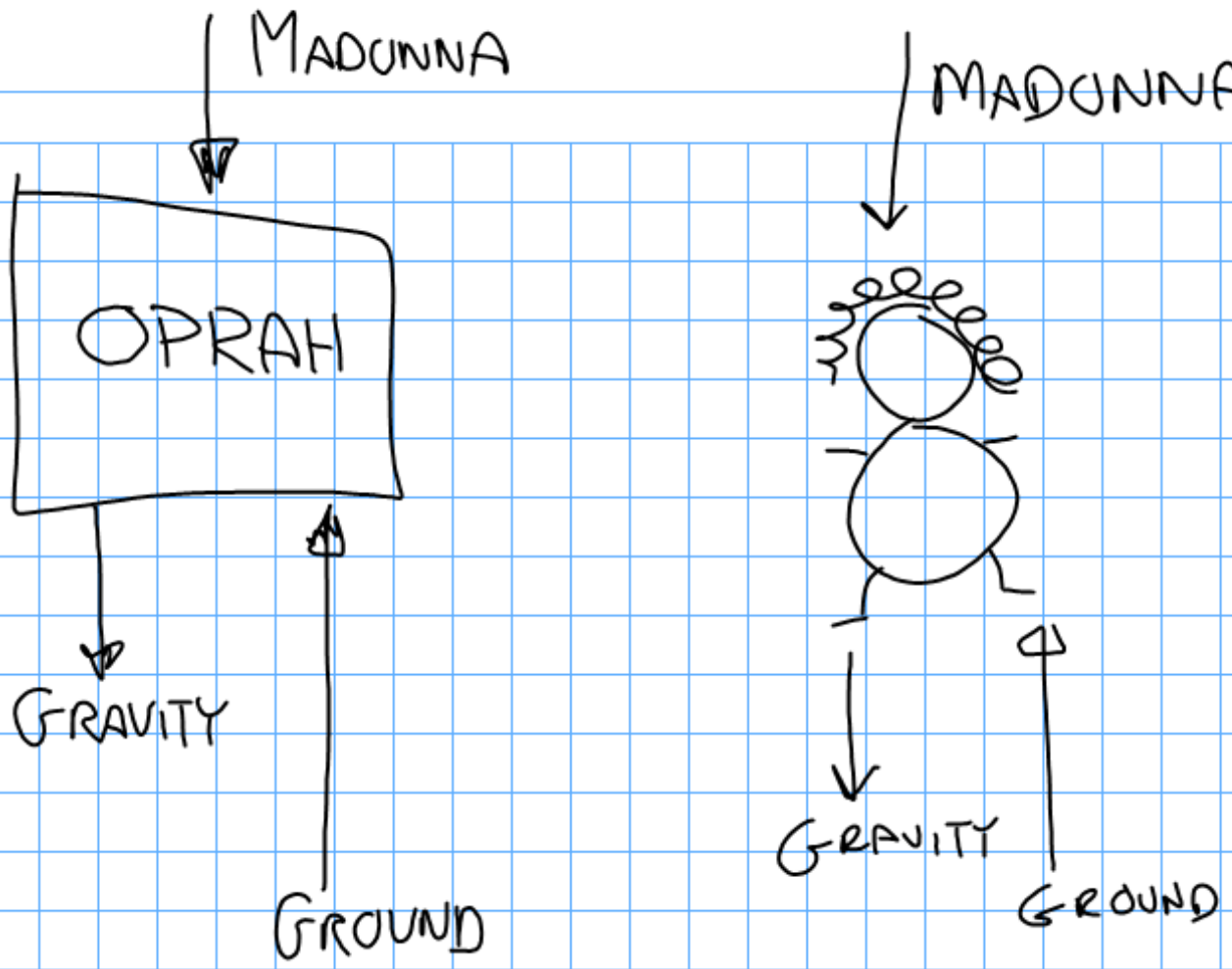


2) ATST Han's Nose Pushes On The Cattle Prod

3)

BUNNY CONTINUES TO MOVE UPWARD BECAUSE FORCES ARE BALANCED.

4)



5)

1a $7.6\ m/s^2 = a$ $58\ kg = m$

1b $F_{NET} = ?$

2 $F_{NET} = m \times a$

3 $F_{NET} = 58 \times 7.6$

4 $F_{NET} = 440.8\ (N)$ IN THE DIRECTION OF HIS ACCELERATION

5 $F_{NET} = m \times a$

$\frac{440.8}{58} = \frac{58}{58} \times a$

$7.6 = a$ ✓

$7.6\ m/s^2$