J30/13 NEWTON'S 1ST LAW

IT TAKES AN UNBALANCED (NET)

(OVERALL) FORCE TO CHANGE THE MOTION
OF AN OBJECT.

FORCES MAKE THINGS MOVING

A FORCE IS BALANCED WHEN THERE
IS ANOTHER FORCE ON THE SAME
OBJECT IN THE OPPOSITE DIRECTION THAT
IS THE SAME SIZE.



UNBAZANCED FORCES EXIST WHEN
THERE IS NOT AN EQUAL FORCE ACTING
IN THE OPPOSITE DIRECTION ON THE SAME
OBJECT.

MOTION OF THE CART CHANGES

STHERE AN UNBALANCED FORCE ON THE OBJECT?

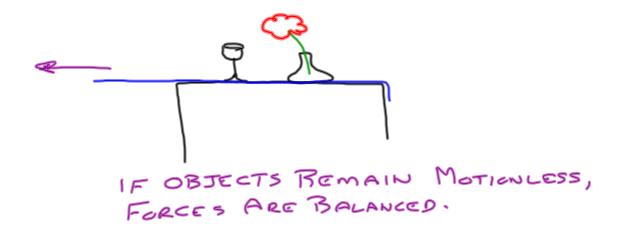
YES - THE MOTION WILL CHANGE

NO - THE MOTION WILL NOT CHANGE

IS THE MOTION OF THE OBJECT CHANGING?

YES - THERE IS AN UNBALANCED FORCE

NO - FORCES ARE BALANCEO.



THE CHICKEN WILL CONTINUE FORWARD

@ 60 km/sec BECAUSE THERE IS

NO UNBALANCED FORCE TO CHANGE ITS

MOTION ...

(THE ANSWER TO # 1 ON THE NEWTON'S IST LAW WORK SHEET.