

NEW CONCEPTS INTRODUCED 01.12.09

MOMENTUM & IMPULSE

$$p = m v \Rightarrow (\text{kg})(\text{m/s})$$

NO SPECIAL UNIT
LIKE NEWTON OR JOULE

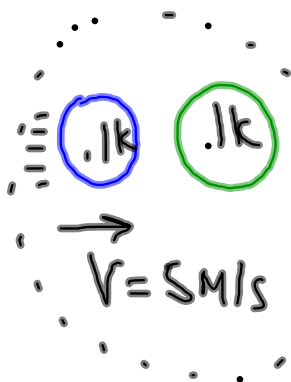
$$F \Delta t = m \Delta v$$

CHANGE IN p

COLLISION PROBLEMS

IN ABSENCE of OUTSIDE FORCES

MOMENTUM (p) is CONSERVED.



p of THIS SYSTEM
at this time before
collision

$$= (.1)(5) + (.1)(0) = .5 \text{ kg m/s}$$