1) Weight, $W = F_g$

a. from the center of mass

- b. down
- c. 90° to Earth.

If there is 2 surfaces in contact:

2) Normal- support force, F_N

a. up, opposite to weight

b. 90° to the surface of contact.

3) Frictional force, f_s or f_k

a. parallel to the surface of contact

b. opposite to motion.

- c. fs (at rest)
- d. fk (moving)

4) Tension Force (rope) F_T

- a. in the direction of the rope
- b. start at the point of attachment
- c. away from the attached mass.