

Name _____

Period ____ Date _____

EQUILIBRIUM PROBLEMS

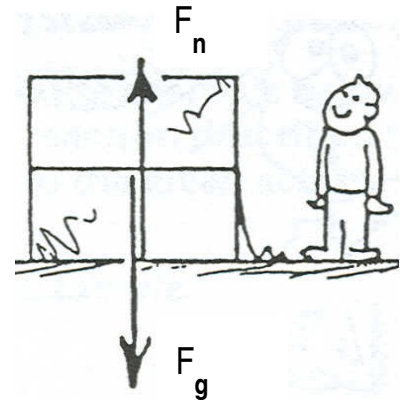
1 F_g is called the force of _____

2 F_n is called the _____ force

3 The crate is at rest. What can be said about F_n and F_g ?

4 In this situation we say the crate is in _____ equilibrium.

5 According to the "Equilibrium rule," the net force on the crate is _____

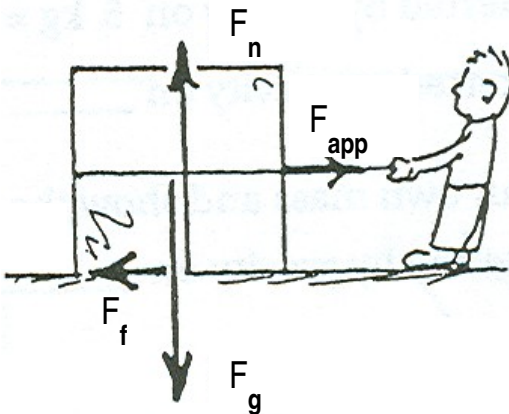


When the boy pulls, the crate doesn't move; it remains at rest.

6 F_f is called the force of _____

7 F_{app} is called the _____ force

8 What can be said about F_f and F_{app} ?

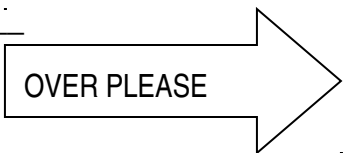


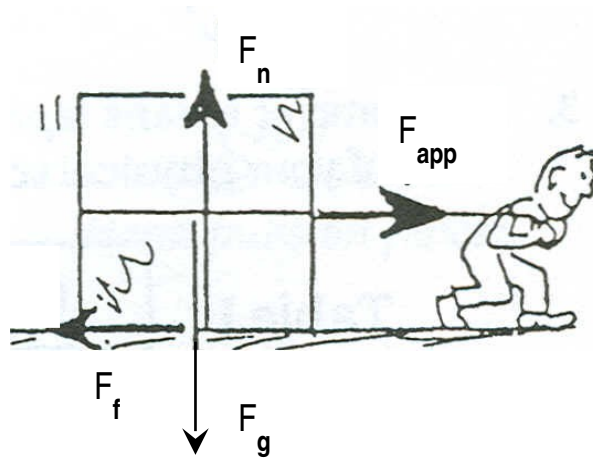
9 In this situation we say the crate is in _____ equilibrium.

10 The boy pulls with 150N and the crate doesn't move. What is the magnitude of the force of friction (F_f)?

11 If the applied force (F_{app}) is increased to 200N and the crate still doesn't move, what is the magnitude of the force of friction (F_f)?

12 According to the "Equilibrium rule," the net force on the crate is _____





13 A man pulls on the crate and the crate begins to move at constant velocity.

14 Constant velocity means the acceleration is equal to _____

15 In this situation we say the crate is in _____ equilibrium.

16 He pulls with a force (F_{app}) of 250N and it slides at constant velocity. What is the magnitude of the force of friction, (F_f)?

17 According to the "Equilibrium rule," the net force on the crate is _____