Name: Physics	Date:
	Inclined Planes and Friction
Directions	Read each statement carefully, then choose the <u>best answer</u> for that statements
1.	The force <u>resistant</u> to the relative motion is
	a) frictionb) terminalc) gravityd) normal
2.	The friction between two objects in motion
	a) static frictionb) kinetic frictionc) coefficient of frictiond) none of these
3.	The force perpendicular to the plane is
	a) frictionb) terminalc) gravityd) normal
4.	The <u>ratio</u> between the <u>friction</u> force and the <u>normal</u> force is the
	a) static frictionb) kinetic frictionc) coefficient of frictiond) none of these
5.	The <u>sum</u> of all the forces on an object is the
	a) static frictionb) kinetic frictionc) coefficient of friction

Review

d) net force

a) static frictionb) kinetic frictionc) coefficient of frictiond) none of these

The friction between two objects at rest is ...

_____6.

SOLVE. Show your work. 1. A smooth wooden block is placed on a smooth wooden tabletop. A force of 14.0 N is necessary to keep the 40.0 N block moving at a constant velocity. a) What is the coefficient of kinetic friction? b) If a 20.0 N weight is placed on the block, what force would be needed to keep the block and weight moving at a constant velocity across the table? Inclined Plane DIRECTIONS: Solve the following using a sketch and show your work. 2. A block whose mass is 47.0 kg rests on a plane that is inclined 43° with

the horizontal.

the plane?

"Leadership is practiced not so much in words as in attitude and in actions." -- Harold S. Geneen

a) If the coefficient of static friction is 0.800, will the block slide down

b) Find the acceleration of the block down the plane.