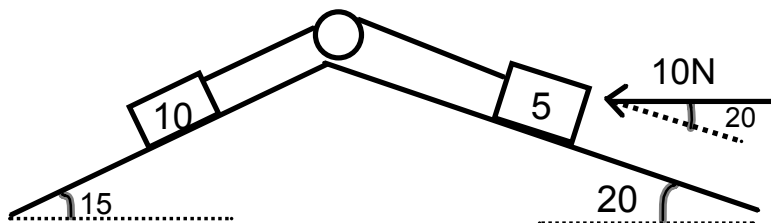


- 1. Did you correctly re-draw the free body diagram with sufficient angles to let you see the components of the forces?
- 2. Did you adequately indicate a positive direction?
- 3. In your acceleration equations, did you write one for each object?
- 4. In your accel equations, did you include only forces in the direction of motion?
- 5. Did you appropriately find components of forces in the direction you were interested in?
- 6. Did you keep track of signs correctly?
- 7. Did algebra work out ok?



$$F_t = ?$$

$$a = ?$$

Friction

• When Things are sitting still = Static

• When Things are moving = kinetic

How much friction will there be and in what direction relative to the push?	Prediction	Observed
Not moving, no push		
Not moving $\xrightarrow{F_P}$		Force of friction matches our push in the opposite direction
Not moving $\xrightarrow{F_P}$		
Not moving $\xleftarrow{F_P}$		
Moving right $\xrightarrow{F_P}$		
Moving right $\xrightarrow{F_P}$		
moving right $\xleftarrow{F_P}$		
moving right No push		
Moving Left $\xleftarrow{F_P}$		

What happens at the transition between not moving and moving?