



15) What two variables affect the friction force between two objects?

16) Which direction does the friction force act compared to the motion of the object?

**PRACTICE:**

17) Draw a force diagram of a box resting (*not moving*) on the floor. What is the net force?

18) Draw a force diagram of the same box being slid across the floor at a **constant speed** (*be careful here...ask yourself, "Is the motion changing? What does that mean about the forces?"*). What is the net force?

19) Are the forces balanced or unbalanced in #17 and #18 above? How can you tell?

20) What would happen to the box in #18 if it was not experiencing balanced forces (*if the applied force pushing it forward was stronger than the friction force*)?