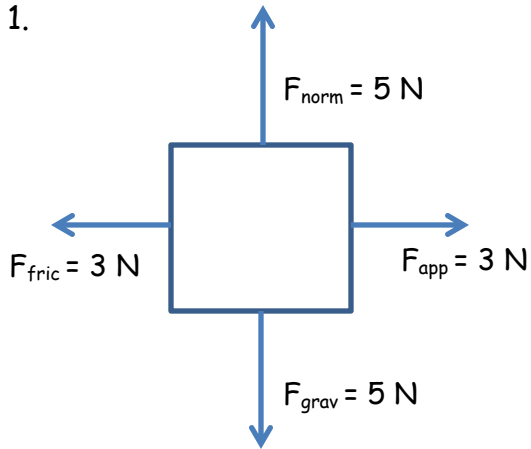


Name: _____ Section: _____

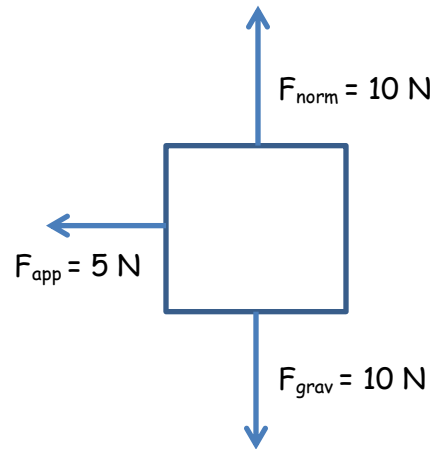
Free Body Diagrams

Directions: Determine the **net force** acting on each object. Force is a **vector**, so remember to show both size and direction.

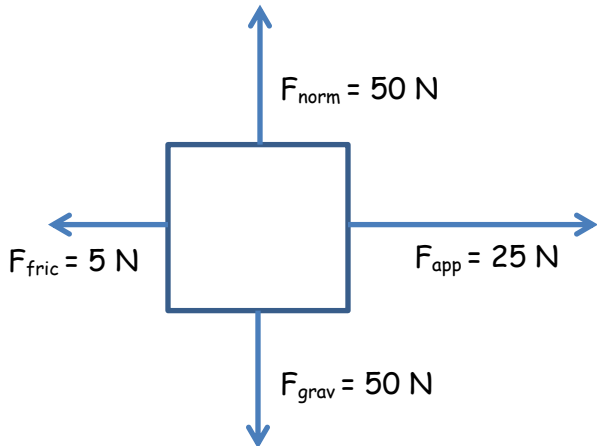
1.



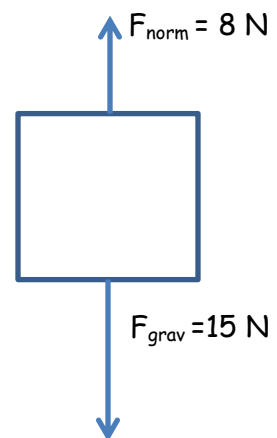
2.



3.



4.



Directions: Create a free-body diagram for the following situations.

5. Nick pushes and accelerates his science textbook to the right while it's on his desk.

6. A gymnast is suspended motionless hanging from two rings that are attached to the ceiling.

7. A bird's waste is free-falling from where it sits on the power lines. (Neglect air resistance)

8. After it goes out of bounds, Nicole lifts the soccer ball straight up from the ground.