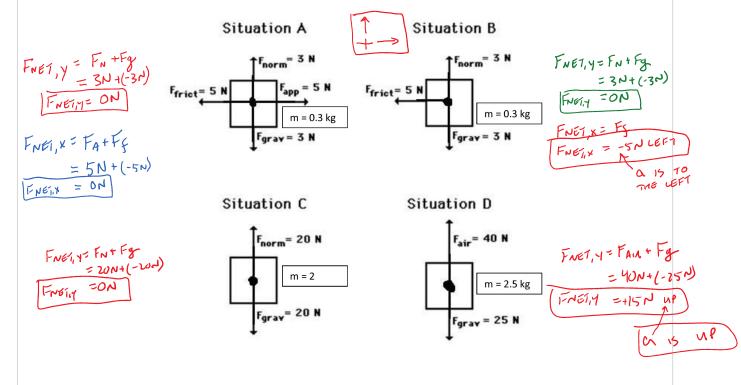
Free-Body Diagrams and Newton's 2nd Law

1. Free-body diagrams for four situations are shown below. For each situation, determine the net horizontal and vertical force acting upon the object. Also, if there is a net force, determine the direction of the acceleration.



Free-body diagrams for four situations are shown below. The net force is known for each situation. However, the magnitudes of a few of the individual forces are not known. Analyze each situation individually and determine the magnitude of the unknown forces.

