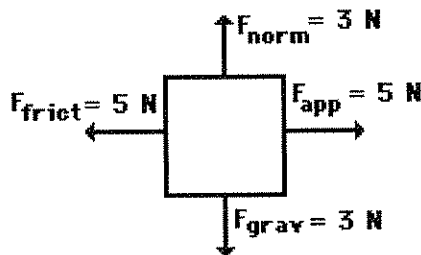


Name _____ Date _____ Period _____

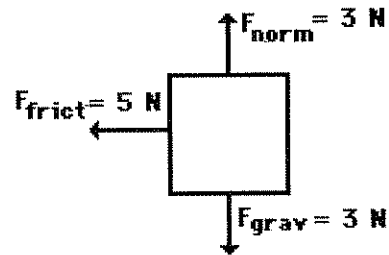
Free-Body Diagram Worksheet

1. Free-body diagrams for four situations are shown below. For each situation, determine the net force acting upon the object and the direction in which the force is acting.

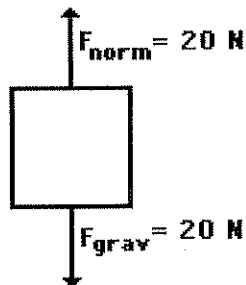
Situation A



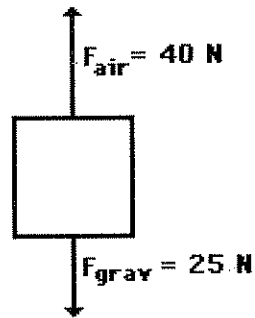
Situation B



Situation C



Situation D



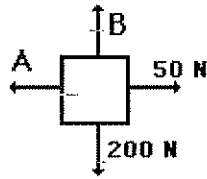
Situation A: _____

Situation B: _____

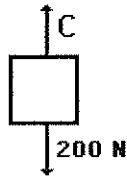
Situation C: _____

Situation D: _____

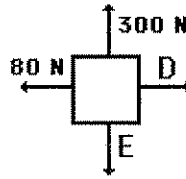
2. Free-body diagrams for four situations are shown below. The net force is known for each situation. However, the magnitudes of a few of the individual forces are not known. Analyze each situation individually and determine the magnitude of the unknown forces.



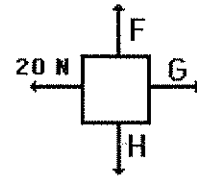
$F_{\text{net}} = 0 \text{ N}$



$F_{\text{net}} = 900 \text{ N, up}$



$F_{\text{net}} = 60 \text{ N, left}$



$F_{\text{net}} = 30 \text{ N, right}$

A	E
B	F
C	G
D	H