Forces • Review and Reinforce

The Nature of Force

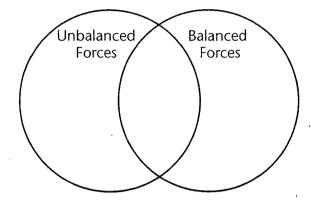
Understanding Main Ideas

Write the phrases listed below in the Venn diagram. Write the characteristics shared by unbalanced and balanced forces in the area of overlap.

change an object's motion do not change an object's motion net force = 0

push or pull have direction net force not = 0

1.



Answer the following question in the space below.

2. Describe how to combine unequal forces acting in opposite directions.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

- 3. newton
 - 4. force
- 5. unbalanced forces
- 6. balanced forces
- 7. net force

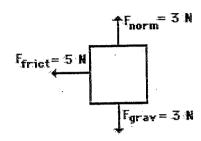
- a. the SI unit for force
- b. sum of all forces acting on an object
- c. push or pull
- d. can change an object's motion
- e. will not change an object's motion

Determining Net Force

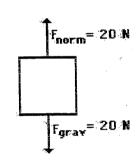
Determine the Net Force in each situation below:

Situation A

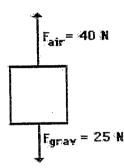
Situation B



Situation C

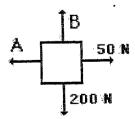


Situation D

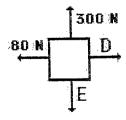


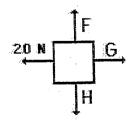
Now solve for the letters shown, given the information provided:

A:	
ο.	



$$F_{\text{net}} = 0 \text{ N}$$
 $F_{\text{net}} = 900 \text{ N, up}$





$$F_{\text{net}} = 60 \text{ N, left}$$
 $F_{\text{net}} = 30 \text{ N, right}$