

# Aim 5.3: Net force

Name: Kay

et force =

examples:



1. When two or more forces are acting on the same object in the SAME direction, you ADD the forces.

$$25\text{ N} \rightarrow + 20\text{ N} \rightarrow = \underline{45\text{ N}} \rightarrow$$

unbalanced.  $\begin{array}{r} 25\text{ N} \\ - 20\text{ N} \\ \hline 5\text{ N} \end{array} \rightarrow \text{right}$

2. When two or more forces are acting on the same object in OPPOSITE directions, you subtract the forces.

$$\begin{array}{r} 12\text{ N} \rightarrow \\ - 10\text{ N} \leftarrow \\ \hline 2\text{ N} \end{array} \rightarrow \text{unbalanced}$$



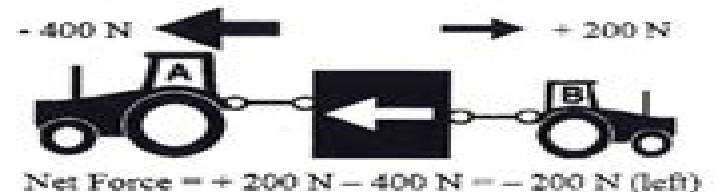
When forces are BALANCED, they do not move  
•  $\text{NF} = 0\text{ N}$  (zero)

3. A big trailer pulls a box 400 N to the left and a little trailer pulls the box 200 N to the right. What is the net force? Is it balanced or unbalanced?

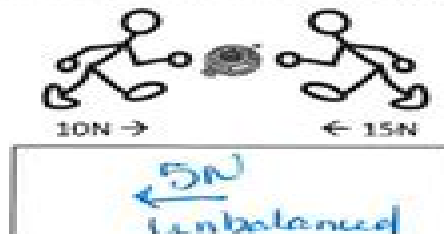
$$\text{net force} = \underline{200\text{ N}}$$

unbalanced

$$\begin{array}{r} 400\text{ N} \\ - 200\text{ N} \\ \hline 200\text{ N} \end{array}$$



4. In the following examples, the people are all pushing books. Determine the net force of each and tell if the forces are balanced or unbalanced. If it is unbalanced use an arrow in the greater direction to show this.



$$\begin{array}{r} 15\text{ N} \\ - 10\text{ N} \\ \hline 5\text{ N} \end{array}$$



$$\begin{array}{r} 20\text{ N} \\ - 1\text{ N} \\ \hline 19\text{ N} \end{array}$$

19 N  
unbalanced

# Forces Energy Biology Worksheet Answer

**Shasha Hu**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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