## Chapter 10 - Forces

What is a force? A force is					
Forces are described by the			and		in which they act.
The strength	of a force is	measured in a u	unit called	a	().
Α	and a _	and a act in opposite directions.			NS.
<b>Notating F</b> orces are of	<b>orces</b> ften represen	ted visually by	an	The	
5 N push	N push			1 N pull	
Combining	<b>J Forces</b> force	s are often actin	ng on an ol	bject	
When forces	are acting in the stren	the gth of the indivi	din dual forces	rection, net forc	e is found by
6N & ➡	12 N	= 18 N			
When forces and the net forces	are acting in orce acts in tl	the ne direction of _	direc	ction, they comb	bine by,
6 N &	12 N	= 6	N		
If two		force	es combine	e, there is	net force.
<b>Calculation</b> Eddie and Ca force to the ri force?	n practice aroline are bo ight, while Ca	oth pushing on a proline is pushin	a filing cabi Ig with 8 N	inet. Eddie is p of force to the l	ushing with 10 N of left. What is the net
10 N	& 8	N = 2	Ν		

Caroline and Natalie both push in opposite directions with the 8 N of force.  $8 N \qquad \& \qquad 8 N \qquad = \qquad 0 N$ 

## **Independent Practice**



## Are there different types of forces?

\_\_\_\_\_ – the force of attraction between two objects.

\_\_\_\_\_\_ - the force that resists the movement of an object.

\_\_\_\_\_\_ - an object that has the ability to stretch and return to its original shape creates kinetic energy when it returns.

\_\_\_\_\_\_ – an object in motion tends to remain in motion and an object at rest tends to remain at rest.

\_\_\_\_\_ – the attraction and repulsion of objects because of charged

electrons

\_\_\_\_\_ – the force that makes an object follow a curved path.