

NAME:

PERIOD:

DATE:

## FORCES CLASSWORK 1

force	balanced	net	gravity	friction
unbalanced	air resistance	cancel	move	<b>WORD BANK</b>

Use the words in the **WORD BANK** above to fill in the spaces below.

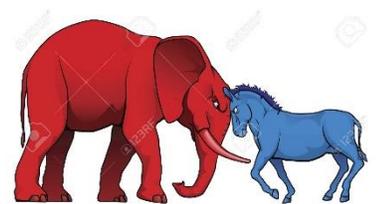
- Any push or pull on an object is a \_\_\_\_\_.
- When the forces on an object are unbalanced, the object will be likely to \_\_\_\_\_.
- \_\_\_\_\_ is a force of attraction between all objects. It keeps planets in orbit, and you on the ground.
- \_\_\_\_\_ is a type of friction that occurs when a moving surface is in contact with air particles, or when moving air particles are in contact with a surface.
- Two dudes pushed on a car and it started to move. This is because the forces were \_\_\_\_\_.
- The \_\_\_\_\_ force is the overall force that remains on an object.
- \_\_\_\_\_ forces would be when two dudes pushed on opposite sides of a door, but the door didn't move.
- If all the forces on an object \_\_\_\_\_ each other, then the net force is zero.
- \_\_\_\_\_ is a force that resists motion when two surfaces are in contact with each other.
- Two teams were pulling on a rope in a tug of war. Read about the two teams, and answer the questions below. (N = Newton a unit of force.)

Team Elephant is Donald, Ben, and Ted. Here are the forces they can pull with.

Don 10 N      Ben 9 N      Ted 11 N

Team Donkey is Hilary, Bernie, and Martin. Here are the forces they can pull with.

Hilary 9 N      Bernie 12 N      Martin 10 N



If they go 3 versus 3 in the first tug of war, who will win, and why?

- Use the word **unbalanced forces**.

- Show the math as a **picture**.