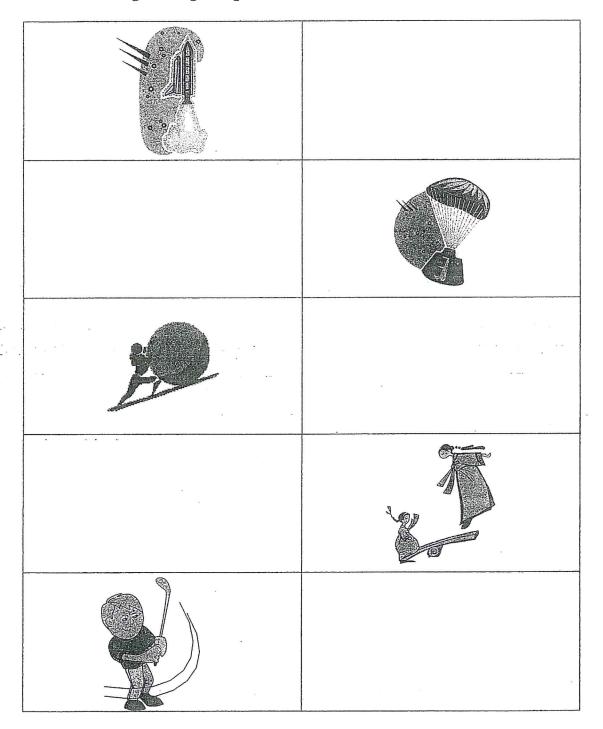
also of an object that already moving.	Name:	Assi	gnment Code:
When you ride a bike, your foot pushes against the pedal. The push makes the wheel of the bike move. When you drop something, it is pulled to the ground by gravity. → A push or a pull is a force. A good definition for force is a or a in a particular direction. Force is a vector quantity, meaning it has both and Forces affect how move. They may cause; they make one of an object that already moving. Forces can affect motion in several ways: They can make objects start moving They can make objects move faster They can make objects stop moving They can make objects stop moving	Period:	•	
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They can make objects move faster They can make objects move slower They can make objects stop moving They can make objects change direction	Forces can affect motion in several w	ays:	
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	They can make objects move slower They can make objects stop moving They can make objects change		

Forces cause changes in the	or of an object.
Forces cause changes in	·
Forces cause	·

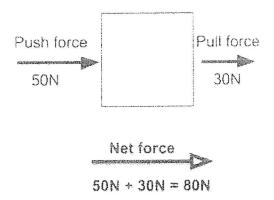
FORCE FACTS:

- Forces are measured in _____(N).
- Forces usually act in pairs.
- Forces act in a particular direction
- Forces usually cannot be seen, but their effects can.

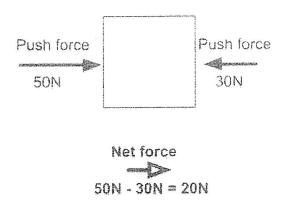
Label the force in each picture as a push or pull. Then describe whether the force is causing a change in speed or direction or both.



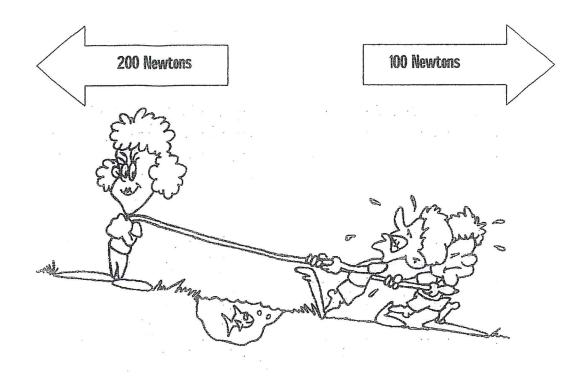
When two forces act in the same direction on an object, the net force is equal to the ______ of the two forces.



When two unequal forces act in opposite directions on an object, the net force is the ______ of the two forces.

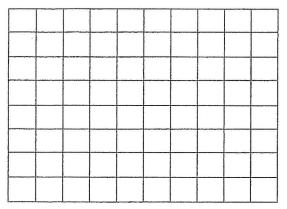


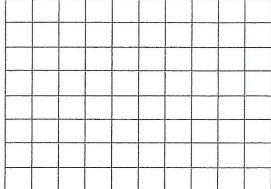
The final force and its direction is called a resultant, or net force.



- 7. The forces shown above are Pushing / Pulling forces.
- 8. The forces shown above are Working Together / Opposite Forces.
- 9. The forces are EQUAL / NOT EQUAL.
- 10. The forces Do / Do Not balance each other.
- 11. The stronger force is pulling to the RIGHT/LEFT.
- 12. The weaker force is pulling to the RIGHT / LEFT.
- 13. Motion is to the RIGHT/LEFT.

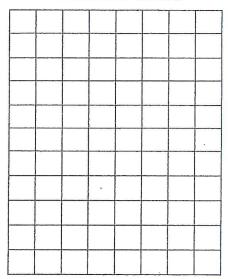
Draw each vector on the chart below. Start at the dot. Each square represents one n of force.





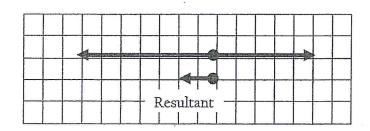
7 n force to the right

5 n force to the left



10 n upward force

3 n downward force



The figure to the left shows two opposite forces.

There is a 5 kg force to the right and a 7 n force to the left. Subtract 5 from 7.

The resultant is a 2 n force to the left.

The resultant vector is shown