

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

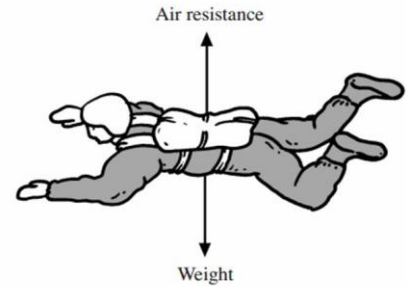
# Worksheet: Chapter 1 & 2 Review

## CONCEPTUAL PHYSICS: UNIT 1

**Directions:** Answer the following questions based on your notes and textbook (Chapters 1 and 2).

1. A rule or principle that describes what happens in nature is a \_\_\_\_\_.

2. What is the net force in the diagram to the right if the object is in dynamic equilibrium? How do you know?



3. What is the minimum resultant possible when adding a 6-N force to an 8-N force? Draw vectors to describe

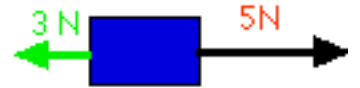
4. What is the maximum resultant possible when adding a 6-N force to an 8-N force? Draw vectors to describe

5. Draw vectors describing the two situations in which an object can be in **mechanical equilibrium**.

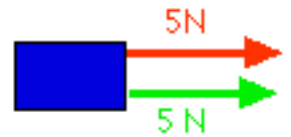
6. A boy whose weight is 800 N hangs from the middle of a bar supported by two vertical strands of rope. What is the tension in each strand?

7. List the steps in the **Scientific Method**.

8. What is the net force in the diagram to the right?



9. What is the net force in the diagram to the right?



10. You are helping move a large crate on wheels from one room to another. When you push the piano horizontally, it moves at constant speed. What can you say about the net force acting on the crate?

11. What is the name of the force that acts opposite to the weight of an object resting on the floor?

12. What is the tension force on each of the spring scales in the diagram below?

