

Name \_\_\_\_\_

Date \_\_\_\_\_ Period/Teacher \_\_\_\_\_



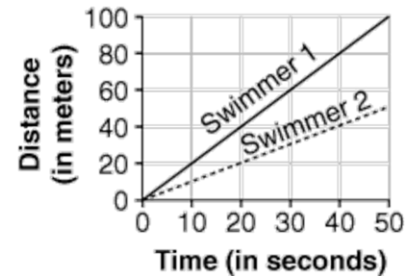
1. What is the result when forces applied to an object are opposite in direction and equal in size?



- A. Movement is upward.
- B. Movement is to the center.
- C. There is no change in motion.
- D. There is maximum change in motion.

6.8B

2. Use the graph below to answer the question.



What can be determined from this graph?

- A. Swimmer 1 is the faster swimmer.
- B. Swimmer 2 is the faster swimmer.
- C. Swimmer 1 rested more than swimmer 2.
- D. Swimmer 2 rested more than Swimmer 1.

6.8D

3. VOCABULARY – Define inclined plane and identify the relationship between distance and force.

Inclined Plane -

Activity: Draw arrows representing the relationship between distance and force when using an inclined plane.

distance

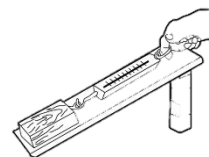
force

\_\_\_\_\_

\_\_\_\_\_

6.8E

4. The diagram shows a wooden block being pulled up an inclined plane that is 25 cm in height.

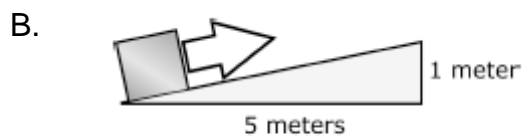
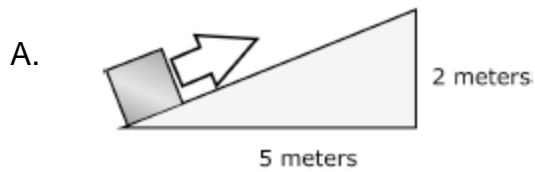


Using the inclined plane reduces the amount of force needed to lift the block, while increasing the —

- A. mass of the wooden block
- B. surface area of the block
- C. pull of gravity on the block
- D. distance the block must move

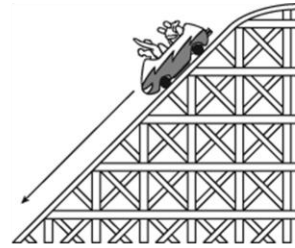
6.8E

5. Which of the following will require the least amount of force to move the load up the inclined plane?



6.8E

6. Jill is learning how forces affect objects in motion. Her class goes to the fairgrounds on a field trip to ride the rollercoaster. The higher Jill's cart climbs up the rollercoaster, the faster it moves down the other side.



What force makes Jill's rollercoaster ride faster?

- A. the force of friction
- B. the force of gravity
- C. the force of inertia
- D. the force of magnetism

6.8B

7. List one advantage and one disadvantage of using an inclined plane.

Advantage:

Disadvantage:

6.8E

8. VOCABULARY - Define spring scale:

spring scale –

Unit:

How do you use a spring scale?

6.4A