

SECTION

2

Reinforcement

Using Machines

Directions: *In the space provided, define and express the term or equation for each of the following.*

1. effort force _____

2. resistance force _____

3. mechanical advantage _____

4. efficiency _____

Directions: *Use the information above to solve the following problem.*

5. A carpenter uses a crowbar to remove the top of a box. The top has a resistance of 500 N. The carpenter applies an effort force of 250 N. What is the mechanical advantage of the crowbar?

Directions: *Answer the following questions with complete sentences.*

6. What are two ways that machines make work easier?

7. How does a crowbar used to remove the top of a box change the direction of the force?

8. What is ideal mechanical advantage?
