

Mechanical Systems

Topic 1 - Levers and Inclined Planes Practice Quiz

1. A wheelbarrow is an example of what simple machine?

- Class 1 lever
- Class 2 lever
- Winch
- Inclined Plane

2. The Canadarm is an example of what simple machine?



- Class 1 lever
- Class 2 lever
- Class 3 lever
- Class 4 lever

(Use the following diagram for the next question)



3. In the lever above, the Effort Force is applied at E. This makes it a

- Class 1 lever
- Class 2 lever
- Class 3 lever
- Class 4 lever

4. Calculate the mechanical advantage, when 736 N of force is used on a bicycle pedal, causing 81 N of force to move the bicycle forward.

- 917
- 655
- 9.08
- 0.11

5. A simple machine that converts rotational motion to linear motion is called

- Inclined plane**
- Wedge**
- Screw**
- Class 2 lever**

6. The science of designing machines to suit people is called ergonomics. The primary criteria used in designing a machine ergonomically is ...

- size**
- aesthetics**
- expense**
- comfort**

Check your **Answers**
