

Activity 1.1.2 Simple Machines Practice

Procedure

Answer the following questions regarding simple machine systems. Each question requires proper illustration and annotation, including labeling of forces, distances, direction, and unknown values. Illustrations should consist of basic simple machine functional sketches rather than realistic pictorials. Be sure to document all solution steps and use proper units.

All problem calculations should assume ideal conditions and no friction loss.

Simple Machines – Lever

A first class lever in static equilibrium has a 50 lb resistance force and 15 lb effort force. The lever's effort force is located 4 ft from the fulcrum.

1. Sketch and annotate the lever system described above.



2. What is the actual mechanical advantage of the system?

Formula	Substitute / Solve	Final Answer
$MA = \frac{F_R}{F_E}$	$MA = \frac{50 \text{ lb}}{15 \text{ lb}}$	3.33

3. Using static equilibrium calculations, calculate the length from the fulcrum to the resistance force.

Formula	Substitute / Solve	Final Answer
$F_E \cdot d_E = F_R \cdot d_R$	$15 \text{ lb} \cdot 4 \text{ ft} = 50 \text{ lb} \cdot d_R$ $60 \text{ lb} \cdot \text{ft} = 50 \text{ lb} \cdot d_R$ $d_R = \frac{60 \text{ lb} \cdot \text{ft}}{50 \text{ lb}}$	$d_R = 1.2 \text{ ft}$

Pltw Activity 1 3 Answers

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