



Simple Machines

Name: _____

Date: _____

Grade: Grade 3

Part A: Multiple Choice

Circle the best answer for each question.

1. Which simple machine is found inside a pencil sharpener?

- A) Lever
- B) Pulley
- C) Wedge
- D) Inclined plane

2. What advantage does a longer lever give you compared to a shorter one?

- A) It weighs less
- B) It needs less force to lift the same load
- C) It removes all friction
- D) It makes the load disappear

3. A doorstop keeps a door open. Which simple machine does it act as?

- A) Screw
- B) Pulley
- C) Wedge
- D) Wheel and axle

4. Why do screws with more threads per inch hold tighter?

- A) They are made of stronger metal
- B) They have a longer inclined plane wrapped more tightly
- C) They are always bigger
- D) They use pulleys inside the wood

Part B: Fill in the Blank

Write the correct answer on each line.

1. A can opener combines a wedge, a lever, and a wheel and _____.
2. An escalator is a moving inclined _____ that carries people up or down.
3. A longer ramp uses more _____ but requires less force to reach the top.
4. Blinds on a window go up and down by pulling a cord attached to a _____.
5. Mechanical advantage tells you how many times a machine _____ your force.

Part A: Multiple Choice

Circle the best answer for each question.

1. Which simple machine is found inside a pencil sharpener?

- A) Lever
- B) Pulley
- C) Wedge
- D) Inclined plane

2. What advantage does a longer lever give you compared to a shorter one?

- A) It weighs less
- B) It needs less force to lift the same load
- C) It removes all friction
- D) It makes the load disappear

3. A doorstop keeps a door open. Which simple machine does it act as?

- A) Screw
- B) Pulley
- C) Wedge
- D) Wheel and axle

4. Why do screws with more threads per inch hold tighter?

- A) They are made of stronger metal
- B) They have a longer inclined plane wrapped more tightly
- C) They are always bigger
- D) They use pulleys inside the wood

Part B: Fill in the Blank

Write the correct answer on each line.

1. A can opener combines a wedge, a lever, and a wheel and axle .
2. An escalator is a moving inclined plane that carries people up or down.
3. A longer ramp uses more distance but requires less force to reach the top.
4. Blinds on a window go up and down by pulling a cord attached to a pulley .
5. Mechanical advantage tells you how many times a machine multiplies your force.