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Simple Machines

Read each question and circle the correct answer.

1. What do all simple machines have in common?

- A. They have a mechanical advantage.
- C. They can be used to do work.
- B. They have few or no moving parts.
- D. All of the above

2. When you use a simple machine to do work, _____.

- A. distance increases and force decreases
- C. distance and force both decrease
- B. distance and force both increase
- D. distance decreases and force increases

3. Genesis is moving a box of books into her treehouse. How will the amount of work change if she uses an inclined plane to get to the treehouse?

- A. The amount of work will decrease when she uses the inclined plane.
- C. The amount of work will increase when she uses the inclined plane.
- B. The amount of work will not change when she uses the inclined plane.
- D. The amount of work will decrease at first and then increase.

4. What might an inclined plane be used for?

A. holding objects together

C. raising and lowering objects

B. splitting an object apart

D. moving an object along the ground

5. Which simple machine would be most helpful for cutting fruit?

A. an inclined plane

C. a pulley

B. a wedge

D. a wheel and axle

6. A screw could best be used for which of the following tasks?

- A. moving clothes on a clothesline
- C. moving rocks from one end of your driveway to another
- B. holding two pieces of wood together
- D. cutting carrots and celery

7. Which of the following is an example of a lever being used to do work?

- A. A woman uses a crowbar, a stick that can be moved back and forth to raise the lid on a box.
- B. A dog finds a stick on the ground and sniffs at it but doesn't move it.
- C. A woman turns a wheel to steer a car.
- D. A child pulls down on a rope to raise a flag.

8. Which of the following is an example of a wheel and axle being used to do work?

- A. A dog walks on four legs.
- B. A girl skis down a hill.

- C. A boy rolls down the street on roller skates.
- D. A bird flies from one branch to another.

9. Which of the following is an example of a pulley being used to do work?

- A. lowering the blinds of a window by pulling a rope attached to a wheel
- B. raising a person into the air by sitting on one end of a seesaw
- C. using your teeth to bite into an apple
- D. opening a door by turning a knob and pushing forward

10. Which of the following is an example of a compound machine?

- A. a string that can be pulled and tied to tighten shoes
- B. a strap on a suitcase that goes over one shoulder
- C. a pair of sunglasses that has two lenses
- D. a wheel, lever and wedge that, used together, open a can