

Name _____

Date _____

LEVERS

Answer the following question after viewing reading and viewing the videos in this lesson.

1. QUESTION

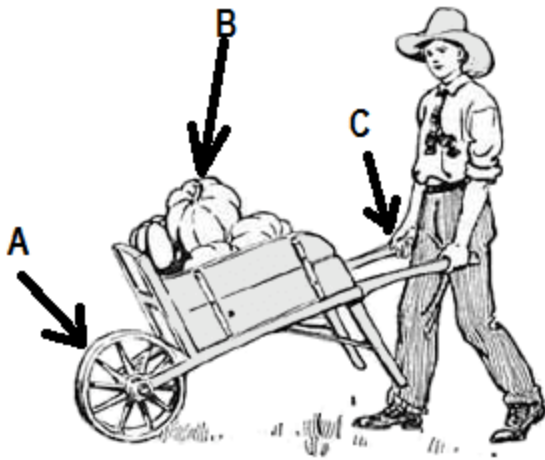
Complete the passage below.

Weight is the _____ of gravity pulling down on you.

Mass is the amount of _____ that makes up an object or thing.

2. QUESTION

Observe the picture below. Then answer the following questions.



1. What type of lever is represented in the picture above?

2. Name the points shown in the picture above?

A _____

B _____

C _____

Name _____

Date _____

3. QUESTION

Observe the picture below. Which point represents the fulcrum?



A

B

C

4. QUESTION

Name the type of lever is a fishing rod.



first class lever

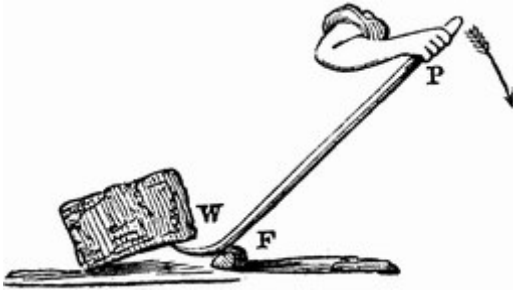
second class lever

third class lever

Name _____

Date _____

REFER TO THIS PICTURE FOR QUESTIONS 5 AND 6.



5. QUESTION

Name the type of lever a crowbar is.

- first class lever second class lever third class lever

6. QUESTION

Observe the picture below. Why is the crowbar a mechanical advantage?

- The work is done easier because direction can be change easily.
- The work is done easier because the effort arm is longer than the load arm.
- The work is a bit difficult because more effort of force has to be placed on the crowbar.

7. QUESTION

Why is this nutcracker an efficient device?



- The load arm is shorter than the effort arm.
- The load arm is longer than the effort arm.
- The load arm and the effort arm are the same in length.

Name _____

Date _____

8. QUESTION

Why is the mouse experiencing so much trouble pulling the beam down. Select the correct options.



- The effort arm is too short when compared to the length of the load arm.
- The elephant is huge and the mouse is too small.
- The mouse has no mechanical advantage.
- This is the wrong type of lever.
- The effort arm is too long when compared to the length of the load arm.

9. QUESTION

A class three type of lever is perfect for ____.

- heavy loads
- huge loads
- light jobs

10. QUESTION

What type of lever is not a second class lever?

A



B



C



D



11. QUESTION

Name _____

Date _____

Select the correct statement for the hammer.

- A hammer is a perfect first class lever
- A hammer offers no advantage for fulfilling most difficult task.
- A hammer lacks loan arm and so makes the hammer not so efficient.
- Little effort is needed to get the job done with a hammer.