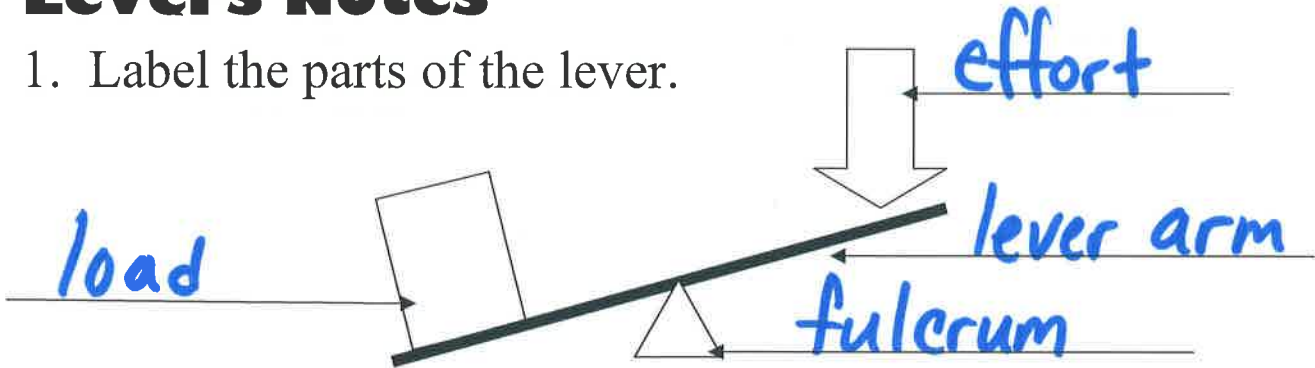


Name _____ # _____

Levers Notes

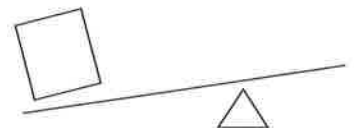
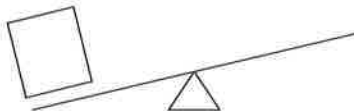
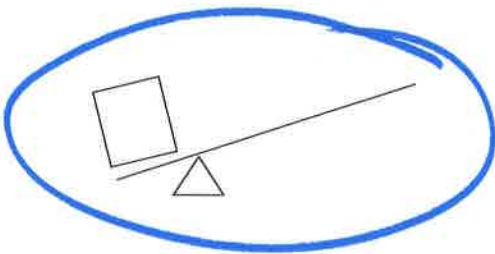
1. Label the parts of the lever.



2. Draw or write examples of levers.

pliers
car jack
scissors
seesaw

3. Which lever will make the job the easiest?



4. Why do people use levers? (restate the question and answer in a complete sentence)

People use levers to decrease the amount of force needed to lift a load.

Name _____ # _____

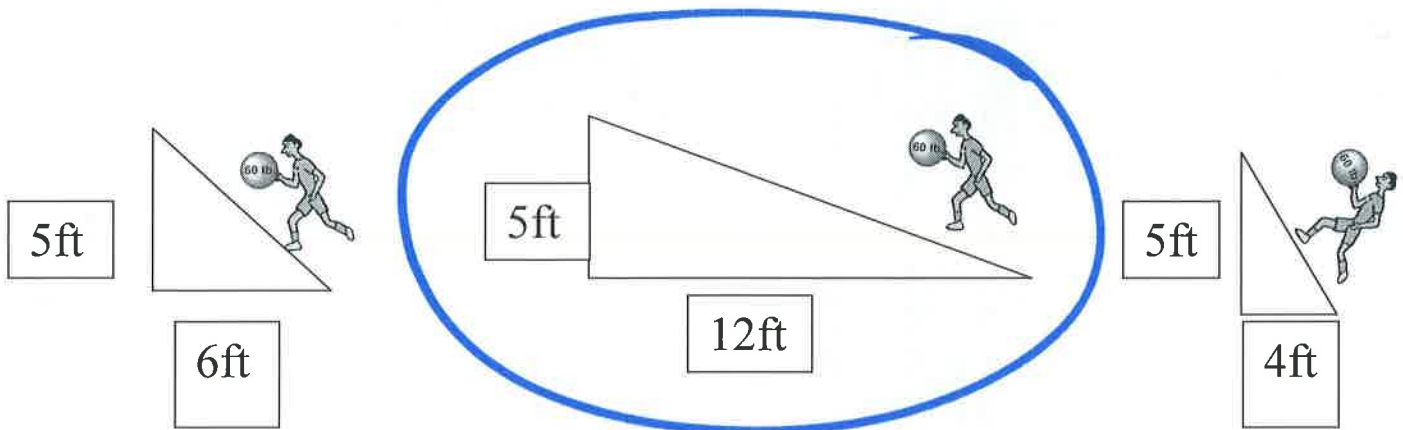


Inclined Plane Notes

Directions: Fill in the missing words in the following sentence.

1. An inclined plane is a ramp used to decrease the amount of force needed to move an object up or down.

Circle the inclined plane that makes the job the **EASIEST**.



4. **Explain WHY** the inclined plane you circled would make job the easiest. Make sure to include **force**, **load**, and **distance**. (3 pts)

The inclined plane I circled would make the job the easiest because it is

the longest. It takes less force to carry a load over a longer distance.

5. List/Draw examples of **Inclined Planes**.

ramp 
stairs 

Name _____ # _____



Wedges and Screws Notes

Wedge

A wedge is two inclined planes joined back to back.

A wedge can be used to split things apart.

Screws

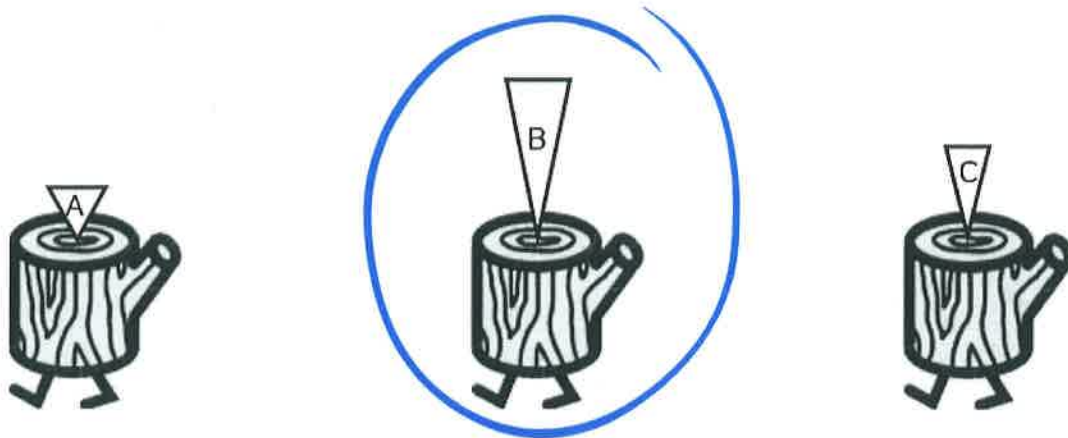
A screw is an inclined plane wrapped around a post.

A screw can be used to hold things together.

Examples:

Wedges	Screws
knife saw ax	screw jar lids

Circle the WEDGE will make this job the EASIEST.



Explain WHY the wedge you circled would make the job the easiest. Make sure to include **force**, **effort**, **load** and **distance**.

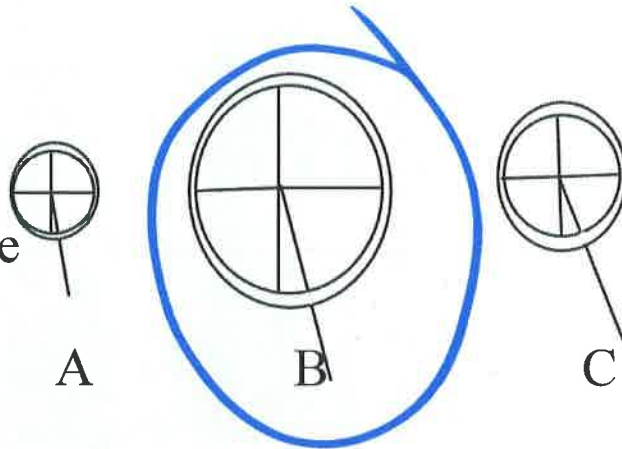
I circled the longest wedge because the greater the distance the effort travels the easier it is to split the load.

Name _____ # _____

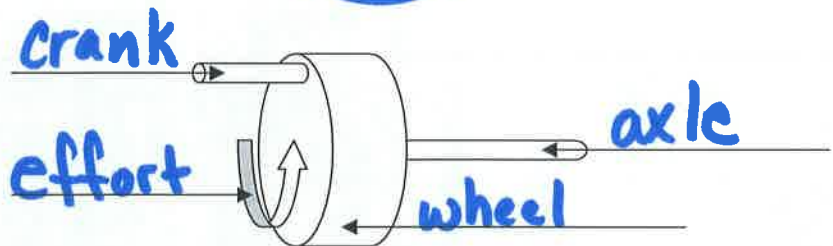


Wheels and Axle Notes

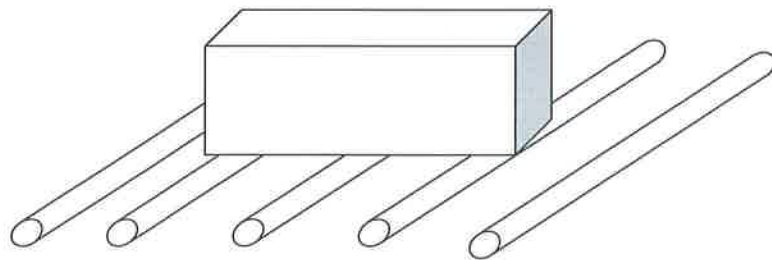
1. Circle the wheel that makes turning the axle the EASIEST.



2. Label the parts:



3. Rollers are a type of wheel that can be used to move heavy objects.



4. List examples of Wheels and Axles.

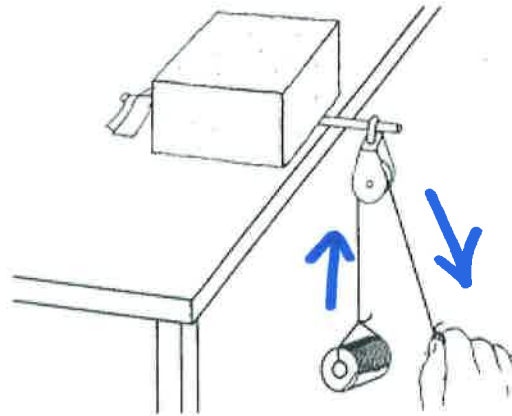
car, skateboard, pencil sharpener

Name _____ # _____

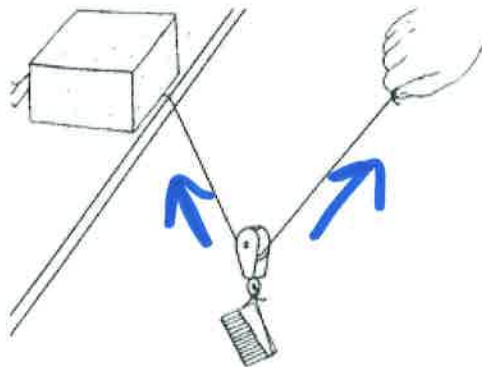


Pulley Notes

1. Label the direction of the force and load on the fixed pulley picture.



2. Label the direction of the force and the load on the movable pulley picture.



3. How does a single fixed pulley make it easier to lift a load?

Using a fixed pulley is easier because it's easier to pull down than push up because of gravity.

4. How does a single, movable pulley make it easier to lift a load?

A single, movable pulley makes it easier because it decreases the force needed to lift the load.

5. Explain the tradeoff when using a single, movable pulley.

The force/effort must be applied over twice the distance.