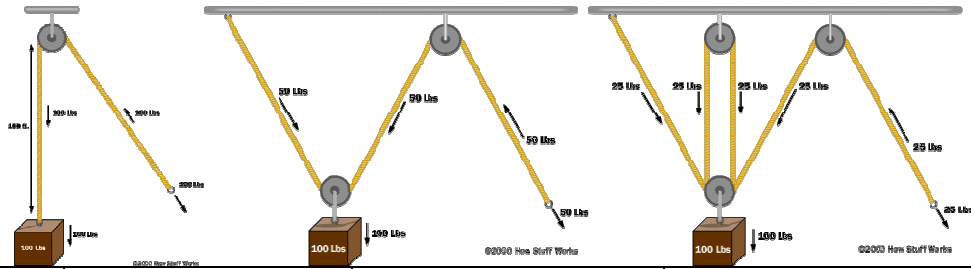


Pulleys:



	One Pulley	Two Pulleys	Four Pulleys
Force:			
Length of Rope:			
Speed:			

Archimedes' Screw:

Was this easier or harder than the pulleys?

Does it take more or less time to move the same number of balls with the pulleys?
At the beginning? Once the balls have started coming out?

Paddle Wheel:

Was this easier or harder than the pulleys? Than the Archimedes' Screw?

Does it take more or less time to move the same number of balls?
At the beginning? Once the balls have started coming out?

Descriptions of the Mechanical Lifting Mechanisms:

Pulleys

Adding pulleys and increasing the mechanical advantage of the system:

- it requires less force to lift the weight.
- the force must be applied over a longer distance.



Archimedes' Screw

By carefully constructing a special ramp system that works using rotation:

- semi-continuous flow of objects
- easier than using buckets
- can also be used for propulsion



Paddle Wheel

A wheel-based system with special paddles designed to carry or push objects/fluids:

- semi-continuous flow of objects
- easier and faster than using buckets
- can also be used for propulsion

