Date: \_\_\_\_\_

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## PULLEYS QUIZ

## 1. What is a pulley?

A pulley is a wheel with a groove in it, and a rope or chain passes over the pulley.

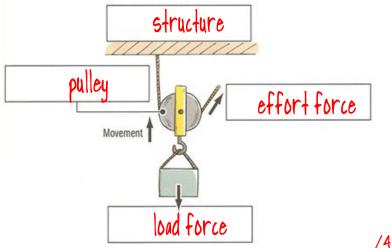
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Fill in the table below by naming the type of pulley shown and by using an "x" or a "√" to indicate correct/incorrect information.

Picture	Type of Pulley	You need less effort when you use this pulley.	You can change direction with this pulley.
	Fixed	×	✓
	Moveable	~	× /4

- 4. Name three examples of things that use pulleys.

Crane /3 Flagpole Clothesline ...etc 5. Please label the diagram.



- 6. If a pulley system has a mechanical advantage of 4, what does that mean? Mechanical advantage tells how much easier the system makes it to lift the load. This means that it is 4 times easier to lift this load. This means you only need a quarter of the effort to lift the load. For example, if you lifted 100 kg, it would only take 25 kg of effort.
- 7. Below you will find a comic that I found on the internet. There is something scientifically wrong with it. Please explain what is wrong, relating to pulleys, about this comic.

