1. Complete the sentences with the words:




movable

fixed

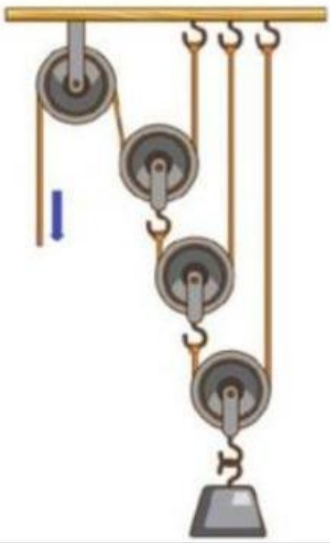
two

hoist

effort

The set of two or more pulleys is called a _____. It consists of _____ groups of pulleys: _____ and _____. As the number of pulleys increases, the mechanism becomes more complex, but the _____ decreases.

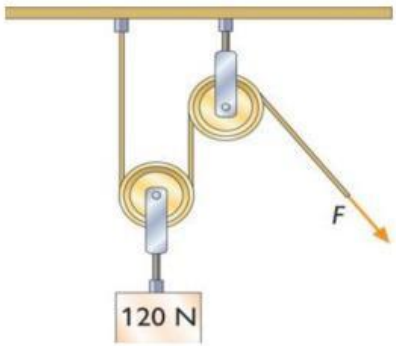
2. Select the formula for each case:




$$F = \frac{R}{2n}$$

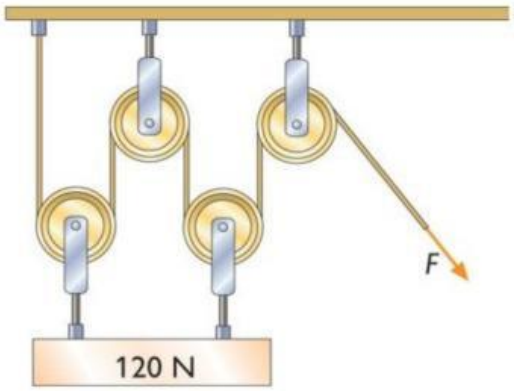
$$F = \frac{R}{2^n}$$

3. The pulley system is a combination of pulleys, Calculate the force required to lift the load of 120N.



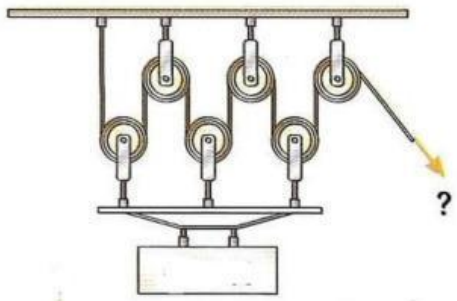
Solution:

4. Calculate the force required to lift the weight indicated in the figure.



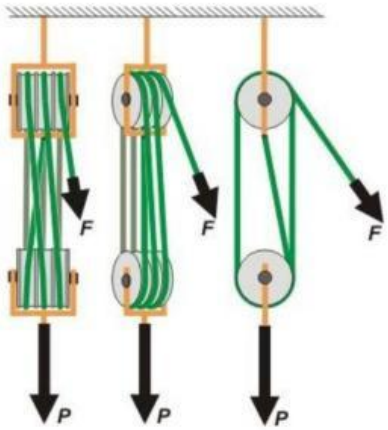
Solution:

5. For the following pulley system in the figure. If we can exert a maximum force to lift objects of 500N. What is the maximum load we can lift with this pulley system?

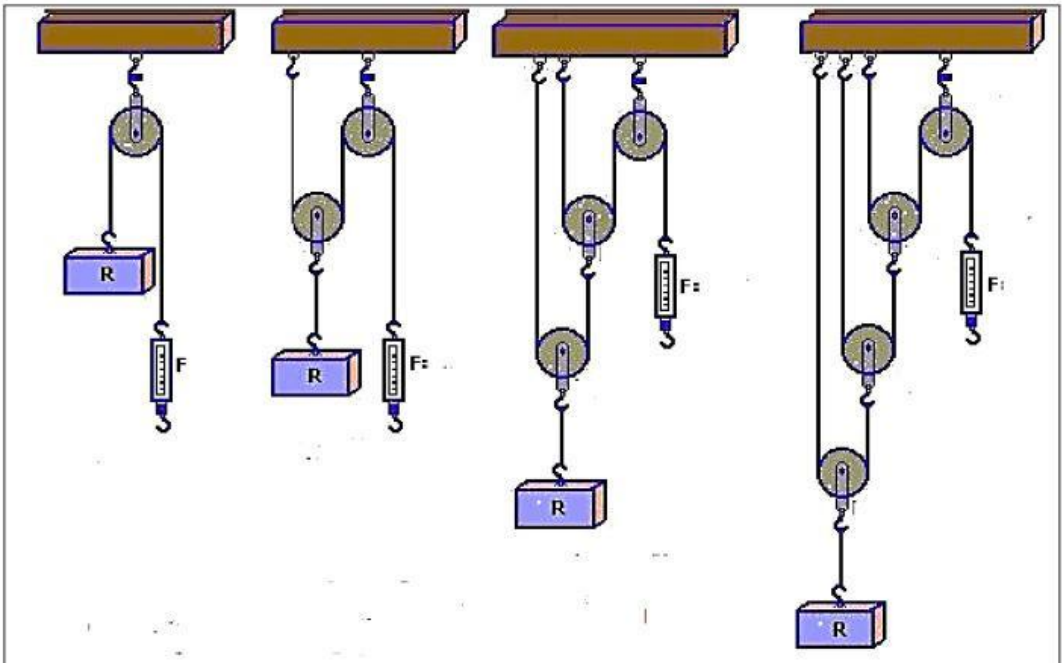


Solution:

6. For the following pulley systems: Calculate the force "F" that must be applied in each of them if we want to lift a weight "P" of 250N.



7. For the pulley system in the following figure: Calculate the force "F" that we will have to exert to lift a weight "R=120N" in each case.



F=	F=	F=	F=