PROBLEM 1

Calculate the force an operator has to exert to carry a 150 Kg drum on a 2.5 m long wheelbarrow, if he places the drum 50 cm from the wheel :

Solution : F= Kg

PROBLEM 2

If the operator in the previous problem is capable of making a maximum force of 70 Kg, what is the maximum weight he can lift which his truck?

Solution: R= Kg

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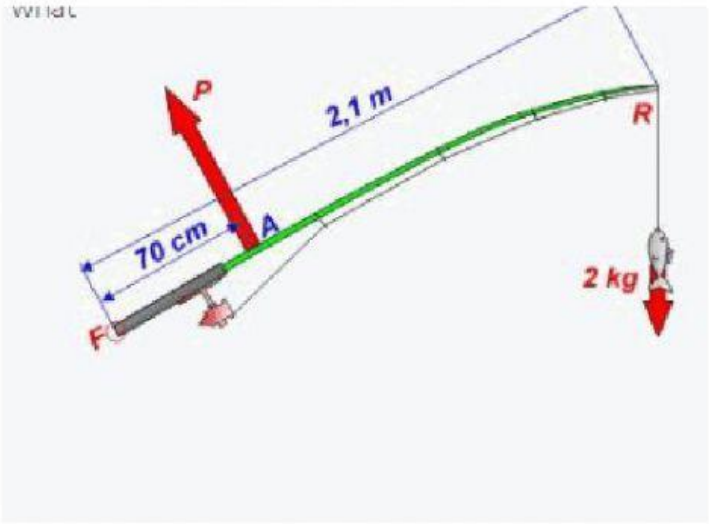
PROBLEM 3

Calculate the force that an operator has to exert to cut a steel cable that offers a resistance of 5 Kg with cutting pliers whose handle has a length of 10 cm an the cutting jaw is located 1cm from the fulcrum ?

Solution: F= Kg

PROBLEM 4

With a 2.5 m long fishing rod we have managed to catch a 2kg fish. If we force 50 cm from the fulcrum, what force must we use to lift the catch?



Solution:

F= Kg

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