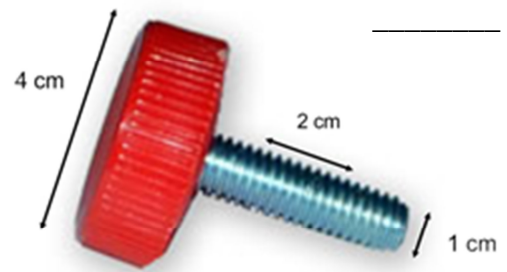
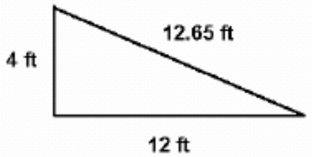


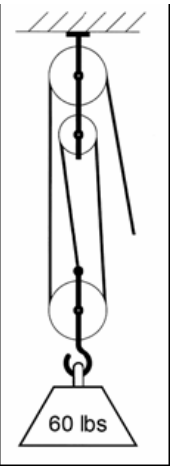
10. What is the mechanical advantage of the screw? _____



11. A physics student is using the ramp shown to raise an object 4 feet above the ground. The mechanical advantage of the ramp is _____.



12. According to the diagram to the right, how many pounds of effort would be needed to lift the 60 lb weight with the pulley? _____



13. According to the same diagram, how high would the weight rise if you pulled 15 feet of rope? _____

14. What is the Ideal Mechanical Advantage of a lever that has an overall length of 3 m, an effort arm of 2.1m, and a resistance arm of .9m? _____

15. A force of 50 N is applied to a 25 cm diameter wheel. The wheel is turning a 2 cm diameter axle. How much mechanical advantage does the wheel and axle provide? _____

16. A pair of pliers is used to hold a circular rod. The distance from the fulcrum to the rod is 1.6 cm. The distance from the pliers' fulcrum to the hand holding the pliers is 9cm. What is the ideal mechanical advantage provided by the pliers? _____.