

10. The hand crank effort for the wheel and axle shown below is 20 N. Calculate the load.



11. Examples: Fill in the space for the mechanical advantage of a compound gear system.

- a. Two intermeshed gears: the effort wheel has 10 teeth and the load wheel has 20 teeth (or: the effort wheel has 10 teeth, the load wheel has 20 teeth). $\therefore \text{M.A.} = \frac{\text{Load}}{\text{Effort}} = \frac{20}{10} = 2$. $\therefore$ the system is 2:1.



- b. Examples: If a driver wheel is powered, the adjacent wheels will rotate according to their sizes. For a system like the one shown, what would happen if you turned the driver at 100 rev/min? Then the driven wheel rotates the factor of 20/10 = 2.
- c. Examples: Fill in the table: the size of all gears. Fill in the gear diameter of 20 cm. If the system is the same speed, what is the wheel diameter? What is the wheel diameter? $\therefore \text{M.A.} = \frac{\text{Load}}{\text{Effort}}$.
- d. Examples: In the figure above, a hand crank is used to turn a wheel and axle system. The wheel has a diameter of 20 cm and the axle has a diameter of 2 cm. Calculate the mechanical advantage of the system.
- e. Examples: In the figure above, a hand crank is used to turn a wheel and axle system. The wheel has a diameter of 20 cm and the axle has a diameter of 2 cm. Calculate the mechanical advantage of the system.



Mechanical Comprehension Study Guide

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