

ASVAB Mechanical Comprehension

force - $\text{ANS mass} \times \text{acceleration}$

vector quantities - $\text{ANS forces that has both size and direction}$

equilibrium - $\text{ANS a stable situation in which forces cancel one another}$

velocity - $\text{ANS the speed and direction of a moving object}$

acceleration - $\text{ANS the rate at which velocity changes}$

pressure - $\text{ANS force (in pounds)} \div \text{area (in inches)}$

work - $\text{ANS force} \times \text{distance}$

tension is measured in - $\text{ANS pounds-force or newtons}$

work is measured in - ANS foot-pounds

power - $\text{ANS work} \div \text{time}$

power is measured in - $\text{ANS horsepower (hp)}$

1 horsepower - $\text{ANS 33,000 foot-pounds per minute or 550 foot-pounds per second}$

mechanical advantage - $\text{ANS when a machine multiplies the force you use}$

mechanical advantage - $\text{ANS resistance} \div \text{effort} = \text{output force} \div \text{input force}$

fulcrum - $\text{ANS point of support to reduce resistance and multiply the effect of effort}$

resistance arm - $\text{ANS the part of a lever that applies a force on an object}$

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