

## WORK Practice Questions:

- ① A horse pulls a sleigh at a constant speed of  $1.2 \text{ m/s}$  with a force of  $350 \text{ N}$ . How much work will be done in  $100 \text{ seconds}$ ?
  
- ② Over what distance must a  $400 \text{ N}$  force be applied to an object so that it gains  $1600 \text{ J}$  of energy?
  
- ③ How much force must be applied to an object so that it gains  $100 \text{ J}$  of Energy over a distance of  $20 \text{ m}$ ?
  
- ④ A  $+20 \text{ N}$  force is applied to an object that moves  $10 \text{ m}$  in the same direction that the force is applied. How much work is done?