

**Work & Power Practice Problems**

Name: \_\_\_\_\_

**Physical Science**

Date: \_\_\_\_\_

**Directions: Show work for all questions. Round all answers to the nearest tenth.**

1. Amy uses 20N of force to push a lawn mower 10 meters. How much work does she do?
  
  
  
  
  
  
  
  
  
  
2. How much work does an elephant do while moving a circus wagon 20 meters with a pulling force of 200N?
  
  
  
  
  
  
  
  
  
  
3. A 900N mountain climber scales a 100m cliff. How much work is done by the mountain climber?
  
  
  
  
  
  
  
  
  
  
4. Shawn uses 45N of force to stop the cart 1 meter from running his foot over. How much work does he do?
  
  
  
  
  
  
  
  
  
  
5. How much work is done when a force of 33N pulls a wagon 13 meters?
  
  
  
  
  
  
  
  
  
  
6. How much work is required to pull a sled 5 meters if you use 60N of force?
  
  
  
  
  
  
  
  
  
  
7. Tommy does 15 Joules of work to push the pencil over 1 meter. How much force did he use?
  
  
  
  
  
  
  
  
  
  
8. Angela uses a force of 25 Newtons to lift her grocery bag while doing 50 Joules of work. How far did she lift the grocery bags?

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9. How far will 490 J raise a block weighing 7 N?
  
  
  
  
  
  
  
  
  
  
10. How far will 490 J raise an 8 Kg mass?
  
  
  
  
  
  
  
  
  
  
11. How far will 560 J raise a block weighing 8 N?
  
  
  
  
  
  
  
  
  
  
12. How far will 500 J raise a 20 Kg mass?
  
  
  
  
  
  
  
  
  
  
13. How much power does it take to do 450 J of work in 5 sec?
  
  
  
  
  
  
  
  
  
  
14. How much power does it take to do 360 J of work in 18 sec?
  
  
  
  
  
  
  
  
  
  
15. If it takes 20N to move a box, how long will it take a 20W motor to move the box 5m?