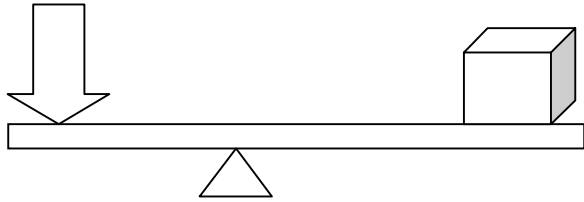


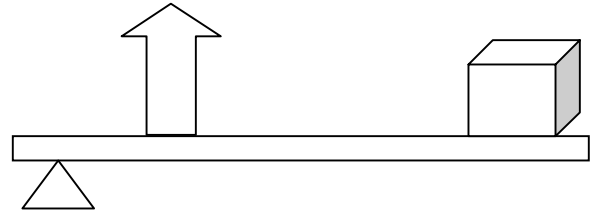
Name _____ Period _____

Worksheet Packet – Simple Machines

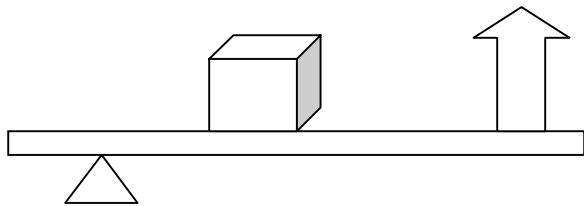
Identify the class of each lever shown below. Label the effort force (force in), resistance force (force out), and fulcrum.



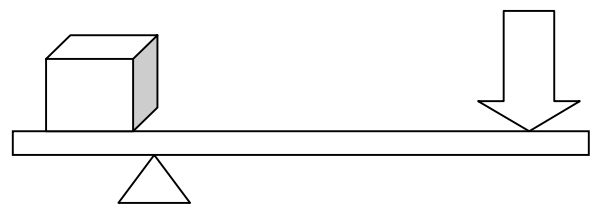
1. _____



2. _____



3. _____



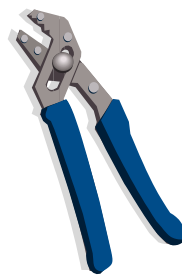
4. _____

5. Which of the above levers would be the most efficient at lifting a heavy block of granite? _____

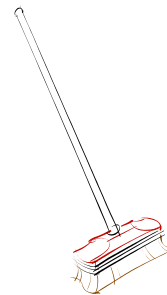
Identify the class of each level in the drawing. Draw a line to indicate the position of the fulcrum, resistance arm, and effort arm using the monikers F, R, and E.



6. Bottle Opener _____

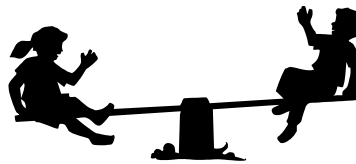
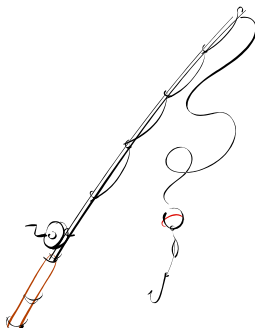


8. _____ Pliers _____



7. Pliers _____

9. Fishing Pole _____

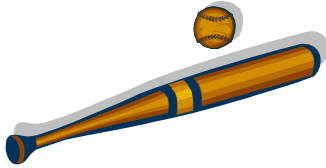


10. Seesaw _____

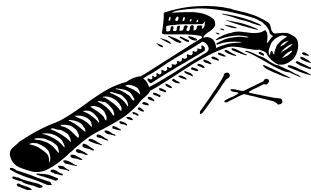
11. Wheelbarrow _____



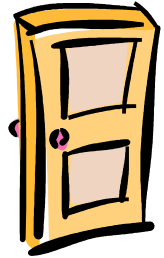
12. Baseball Bat _____



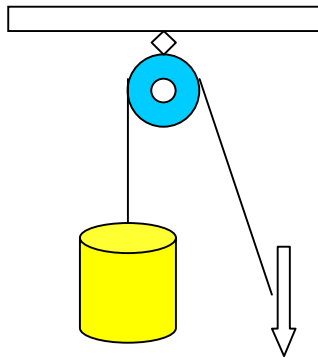
13. Hammer _____



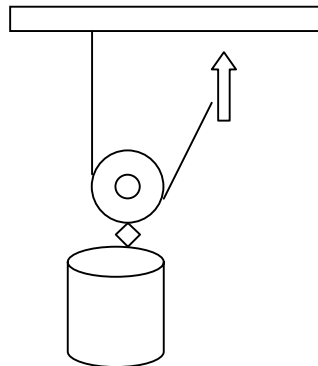
14. Door _____



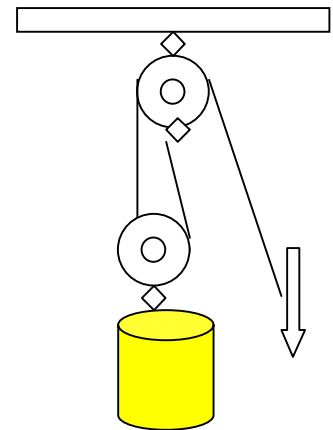
Label the mechanical advantage of each of the following pulley systems:



15. _____



16. _____



17. _____

Label the type of simple machine: (lever, pulley, ramp, screw, wheel, wedge)

18. Log Splitter _____

19. Corkscrew _____

20. Zipper _____

21. Doorknob _____

22. Stapler _____

23. Staircase _____

24. Watch Gears _____

25. Ski Run _____

Write WORK on the line provided if work is done, and NONE if no work is done:

26. _____ Jeff is sitting in a gaming rocker chair reading instructions for his new system.

27. _____ Jeff tilts the chair back while going off a jump in his Wii Game.

28. _____ The game makes a loud crashing noise as Jeff collides with a tree.

29. _____ The remote controller in Jeffs hands vibrates with the crashing sound.