

43. If you tested an unknown liquid using a beaker, a hot plate, and a temperature probe you would be able to determine which property?
44. The amount of gravitational force between two objects depends on their \_\_\_\_\_ and \_\_\_\_\_ from each other.
45. Which set of bowling balls would have the least gravitational force between them?

**Two 20kg bowling balls, 1m apart**

**Two 10kg bowling balls, 1m apart**

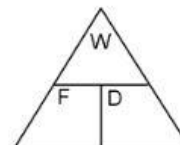
**Two 20kg bowling balls, 2m apart**

**Two 10kg bowling balls, 3m apart**

46. A ramp is an example of which simple machine?
47. Chopping wood with an axe is an example of which simple machine?

48. If you move a 30N box 15m. How much work did you do? \_\_\_\_\_ unit **m kg N J W**

49. The number of times a machine multiplies effort force is called \_\_\_\_\_.

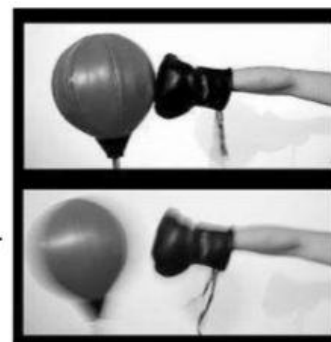


50. If you use a more powerful motor to run a machine **more work the same amount of work less work** is done in **more less the same** time.

51. If your mass on Earth is 60kg what would your mass on the moon be? \_\_\_\_\_ kg

52. If you throw a baseball upward it will travel upward until gravity forces it back to Earth. This is best explained by which one of Newton's Laws?

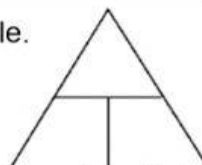
53. For work to be done an object must \_\_\_\_\_ a distance as a result of a \_\_\_\_\_. Was work done on the punching bag by the glove? **Yes No**



54. The amount of WORK done in a certain period of TIME is \_\_\_\_\_.

55. Fill out the triangle for power with the letters for each variable.

56. If 4000 Joules of work are done in 20 seconds how much power was used? \_\_\_\_\_ unit **m kg N J W**



57. If a machine uses a combination of two or more simple machines is called a \_\_\_\_\_ machine.

58. Look at the box from the periodic table.

- \_\_\_\_\_ is the element's name.
- \_\_\_\_\_ is the element's symbol
- \_\_\_\_\_ is the average atomic mass
- \_\_\_\_\_ is the atomic number

|           |
|-----------|
| 11        |
| <b>Na</b> |
| Sodium    |
| 22.99     |