

42. If you tested an unknown liquid using a beaker, a hot plate, and a temperature probe you would be able to determine which property?
43. The amount of gravitational force between two objects depends on their _____ and _____ from each other.
44. 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

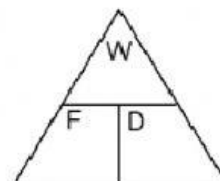
Two 20kg bowling balls, 2m apart

Two 10kg bowling balls, 3m apart

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

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

48. The number of times a machine multiplies effort force is called _____.

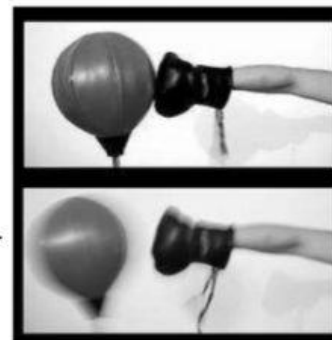


49. If you use a more powerful motor to run a machine **more work the same amount of work less work** is done in **more less the same** time.

50. If your mass on Earth is 60kg what would your mass on the moon be? _____ kg

51. 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?

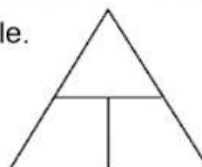
52. For work to be done an object must _____ a distance as a result of a _____. Was work done on the punching bag by the glove? **Yes No**



53. The amount of WORK done in a certain period of TIME is _____.

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

55. If 400,000 Joules of work are done in 20 seconds how much power was used? _____ unit **m kg N J W**



56. If a machine uses a combination of two or more simple machines is called a _____ machine.

57. 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
Na
Sodium
22.99