



MATCH IT!

Match terms or formulas with the phrase that best describes them.
(To be used with lyrics to RRR song "Weight, Mass, Volume, Density")

- | | |
|-------------------------------|---|
| A. weight | _____ 1. a force that creates weight when applied to matter |
| B. mass | _____ 2. formula for the volume of a cylinder |
| C. volume | _____ 3. a force or measurement that can only occur if gravity is present |
| D. density | _____ 4. the ratio of mass to the volume in a space |
| E. gravity | _____ 5. the formula for the density of water |
| F. G | _____ 6. formula for the volume of a cube |
| G. l^3 (<i>l</i> = length) | _____ 7. the amount of space taken up by mass |
| H. $\frac{4}{3} \pi r^3$ | _____ 8. a unit or quantity of matter |
| I. $h\pi r^2$ or $\pi r^2 h$ | _____ 9. formula for the volume of a sphere |
| J. 1 g/cm^3 | _____ 10. a gravitational constant used to measure acceleration |

YES OR NO?

Write 'yes' or 'no' in the blank next to the following questions.
(To be used with lyrics to RRR song "Weight, Mass, Volume, Density")

Write 'yes' or 'no' in the blank next to the following questions.

11. Does the moon have gravity? _____
12. Does r^3 mean $r \times 3$? _____
13. Does $\frac{4}{3}$ mean $4 \div 3$? _____
14. Is a cylinder the same shape as a sphere? _____
15. Does r^2 mean $r \times r$? _____