Team [ ]

Rank [ ]

Fermi Questions

1. What is the product of the atomic numbers of Ca, Zr, Nd, Hg and Fm? [ ]

2. What is the number of faces on an icosahedron raised to the power of the number of vertices on a dodecahedron? [ ]

3. How long is Interstate 20, running from Texas to South Carolina via Louisiana, Mississippi, Alabama and Georgia? [ ] m

4. What is the number in base 10 that is equal to 20202020 in base 20? [ ]

5. How many LPO mugs, stacked one on top of another, would reach the Orion Nebula (1000 light years distant)? [ ]

6. How many water molecules would fill 20 LPO mugs? [ ]

7. What is the kinetic energy of a molecule in air at standard temperature and pressure? [ ] J

8. What is the combined kinetic energy of 20 apples dropped from rest from a height of 1 m? [ ] eV

9. How many electrons are there in one litre of plutonium? [ ]

10. If a piece of paper is folded, and its thickness doubled, 20 times over how high would the pile of paper be? [ ] m

11. What power is required to heat 20kg of water by 20K in 20s? [ ] W

12. What is the gravitational force between two 20p coins separated by 20 times their diameter? [ ] N

13. What is the capacitance of two 20p coins held parallel with their faces 20 mm apart? [ ] F

14. How many times has the Liverpool Physics Olympics been held? [ ]