

1. Physics Puzzle – The Suspended Egg (try this at home!)

How would you make a raw egg float halfway between the surface and the bottom of a glass of water?

2. Find the jumbled European Cities

- | | |
|----------------|-------|
| 1. OREM | _____ |
| 2. NOONDL | _____ |
| 3. MRIDAD | _____ |
| 4. LOOS | _____ |
| 5. NEHTAS | _____ |
| 6. ARIPS | _____ |
| 7. NEVIEC | _____ |
| 8. SAMAMTRED | _____ |
| 9. OMWOCS | _____ |
| 10. TANSILUB | _____ |
| 11. EGPOCHENAN | _____ |
| 12. RIBENL | _____ |
| 13. NNAIVE | _____ |
| 14. VEENGA | _____ |
| 15. LASRELEMI | _____ |
| 16. BILNOS | _____ |
| 17. NUBLID | _____ |
| 18. ERPUGA | _____ |
| 19. CINHUM | _____ |
| 20. SRWAWA | _____ |

3. Geometry Puzzle – The Magnifying Glass

I drew a figure of 8 on a piece of paper and then looked at it in a magnifying glass: it looked twice as big. I then drew another figure and looked at it through a magnifying glass: it looked no bigger than before.

What had I drawn?

Answers:

1. First fill the glass half full of water and dissolve enough salt in it to make it dense enough for the egg to float on top. Then add more unsalted water to the top, filling the brim.
2. The cities are:
 1. Rome
 2. London
 3. Madrid
 4. Oslo
 5. Athens
 6. Paris
 7. Venice
 8. Amsterdam
 9. Moscow
 10. Istanbul
 11. Copenhagen
 12. Berlin
 13. Vienna
 14. Geneva
 15. Marseille
 16. Lisbon
 17. Dublin
 18. Prague
 19. Munich
 20. Warsaw
3. I drew an angle