# Defection of the Russian Spy

Background: A British spy was working in Moscow when he received word that a Russian spy wanted to defect. The defection was arranged by calculating various problems on a calculator, turning the calculator upside down and reading the message on the display panel.

Show your work!

1. A. Calculate the number of moles in 540 grams of silver. 1A____5_____

   B. Add 80807729 to 1A 1B____80807734___

   C. This gives the code by which the British spy will introduce himself Code__hello bob__

2. A. Calculate the mass in grams of 9.0 moles of neon 2A___180_____

   B Subtract the value of 2A from 1B 2B__80807554_____

   C. Subtract the value 3419836 from 2B 2C___77387718____

   D. This is the spy's code name Code__bill bell__

3. A. Calculate the mass in grams of 55.00 moles of sodium 3A__1265_____

   B. Subtract the value for 3A from 2C 3B__77386453_____

   C. Subtract the value 22298718 from 3B 3C__55087735_____

   D. This gives the reason the Russian spy is defecting Code_sell boss___

4. A. Calculate the number of moles in 6286.5 grams of copper 4A__99_____

   B. Subtract the value for 4A from 3C 4B__55087636_____

   C. Subtract the value 49580122 from 4B 4C__5507514_____

   D. This confirms the Russian no longer has any loyalty to his employer Code_his loss____

5. A. Calculate the number of moles in 821.1 grams of potassium 5A____21_____

   B. Subtract the value for 5A from 4C 5B__5507493_____

   C. Subtract the value 4461785 from 5B 5C__1045708_____

   D. This tells you the name of the famous Russian ballet company where the defection will take place Code__BOLShOL__

6. A. Calculate the mass in grams of 36.0 moles of aluminum — 6A__972_____

B. Add the value for 6A to 5C — 6B__1046680_____

C. Add the value 79706827 to 6B — 6C__80753507_____

D. This tells you the instruction that the Russian spy is given concerning the fat secret policeman following him. — Code__lose slob__

7. A. Calculate the mass in grams of 798.778 moles of calcium — 7A__32031_____

B. Add the value for 7A to 6C — 7B__80785538___

C. This gives you the strange code name of a lady spy who will contact the Russian spy at the ballet. — Code_bess blob

8. A. Calculate the number of moles in 144 grams of carbon — 8A__12_____

B. Subtract the value for 8A from 7B — 8B__80785526_____

9. A. Calculate the mass in grams of 8.39 moles of selenium — 9A__663_____

B. Subtract the value for 9A from 8B — 9B__80784863_____

C. Subtract the value 9707518 from 9B — 9C__71077345_____

D. This tells you the name of the company the Russian spy will work for after his defection. — Code_shell oil__

10. A. Calculate the moles in 6216319 grams of tin. — 10A_52370_____

B. Add the value for 7B to 10A. — 10B_80837908_____

C. Subtract the value for 9B from 10B. — 10C_53045_____

D. What will the spy buy with his first paycheck? — Code__shoes_____