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## Experiment One (1A)

Solution	Cation Test 1	Cation Test 2	Cation Test 3
A	pale purple soln with brown ppt	brown ppt separated out; then pink ppt	deep blood-red solution
B	dark bluish-purple soln	dark bluish-purple soln	pale copper-coloured solution and white ppt
C	brownish solution	brown solution; then pink ppt	pale brown solution
D	dark blue solution with brown ppt	brown ppt separated out from dark blue solution	deep blood-red solution with white ppt

Cation test 1 involves  $\text{NH}_3$  and  $\text{NH}_4\text{NO}_3$

Cation test 2:  $\text{NH}_3$  and  $\text{NH}_4\text{NO}_3$ , then add DMG

(DMG = dimethylglyoxime)

Cation test 3 involves KSCN

(see lab manual for all test details)

Solution	Anion Test 1	Anion Test 2
A		cloudy precipitate
B	cloudy precipitate	
C		cloudy precipitate
D	cloudy precipitate	

Anion test 1 involves  $\text{AgNO}_3$

Anion test 2 involves  $\text{Ba}(\text{NO}_3)_2$

(see lab manual for all test details)



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