

Part 1:

color	observed $\lambda$ :	Calculate predicted $\lambda$ 's:
_____	_____	
_____	_____	
_____	_____	

Part 2:

## A) Background radiation.

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ average = \_\_\_\_\_ counts per minute.  
Find your exposure:

B) Beta source:

Nothing between \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, average = \_\_\_\_\_ c.p.m.

Lead: \_\_\_\_\_  $\div 2 =$  \_\_\_\_\_ counts per minute

Aluminum: \_\_\_\_\_  $\div 2 =$  \_\_\_\_\_ counts per minute

Cardboard: \_\_\_\_\_  $\div 2 =$  \_\_\_\_\_ counts per minute

Gamma source:

Nothing between \_\_\_\_\_  $\div 2 =$  \_\_\_\_\_ counts per minute

Lead: \_\_\_\_\_  $\div 2 =$  \_\_\_\_\_ counts per minute

Aluminum: \_\_\_\_\_  $\div 2 =$  \_\_\_\_\_ counts per minute

Cardboard: \_\_\_\_\_  $\div 2 =$  \_\_\_\_\_ counts per minute

C) Older sample: \_\_\_\_\_  $\div 2 =$  \_\_\_\_\_ counts per minute

Calculate what year the older one was made. (Continue on back if necessary):