

Paper Chromatography

The dyes in several black inks were separated using different solvents.

1. How many different dyes do you see in each of the six black inks?

Ink	# of Dyes	Ink	# of Dyes

2. Stay at the last ink sample you visit. What is this ink? _____

Calculate the **retention factor** (R_f) values for any three dyes in this ink. You may choose to use only one of the solvents if it separated three or more dyes, or choose to calculate the retention factor for one dye in three different solvents.

Solvent	Dye Color	Distance from the start line to the solvent front (mm) Ⓐ	Distance from the start line to the TOP of a color band (mm) Ⓑ	Retention Factor $R_f = \text{Ⓑ} / \text{Ⓐ}$