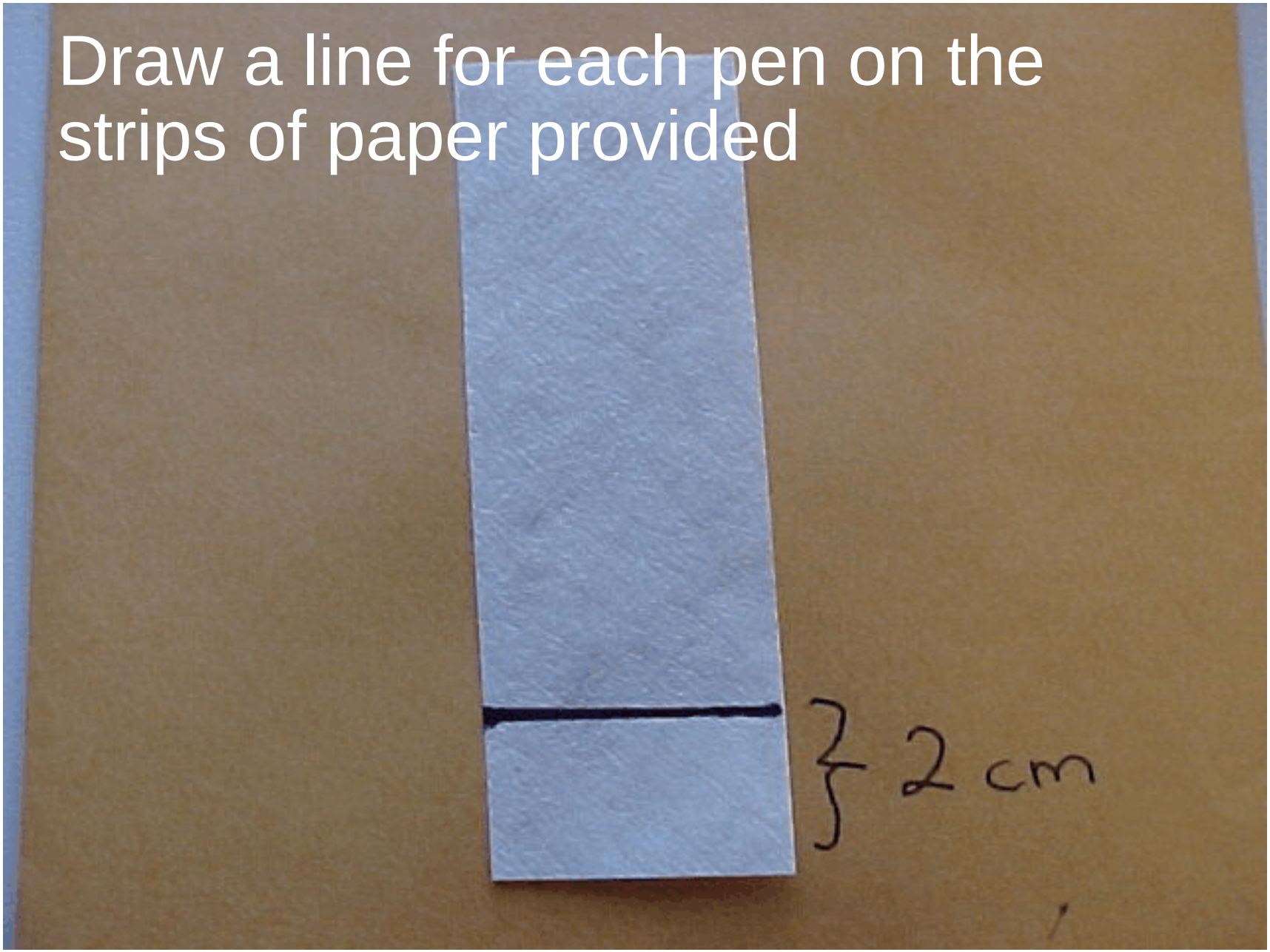
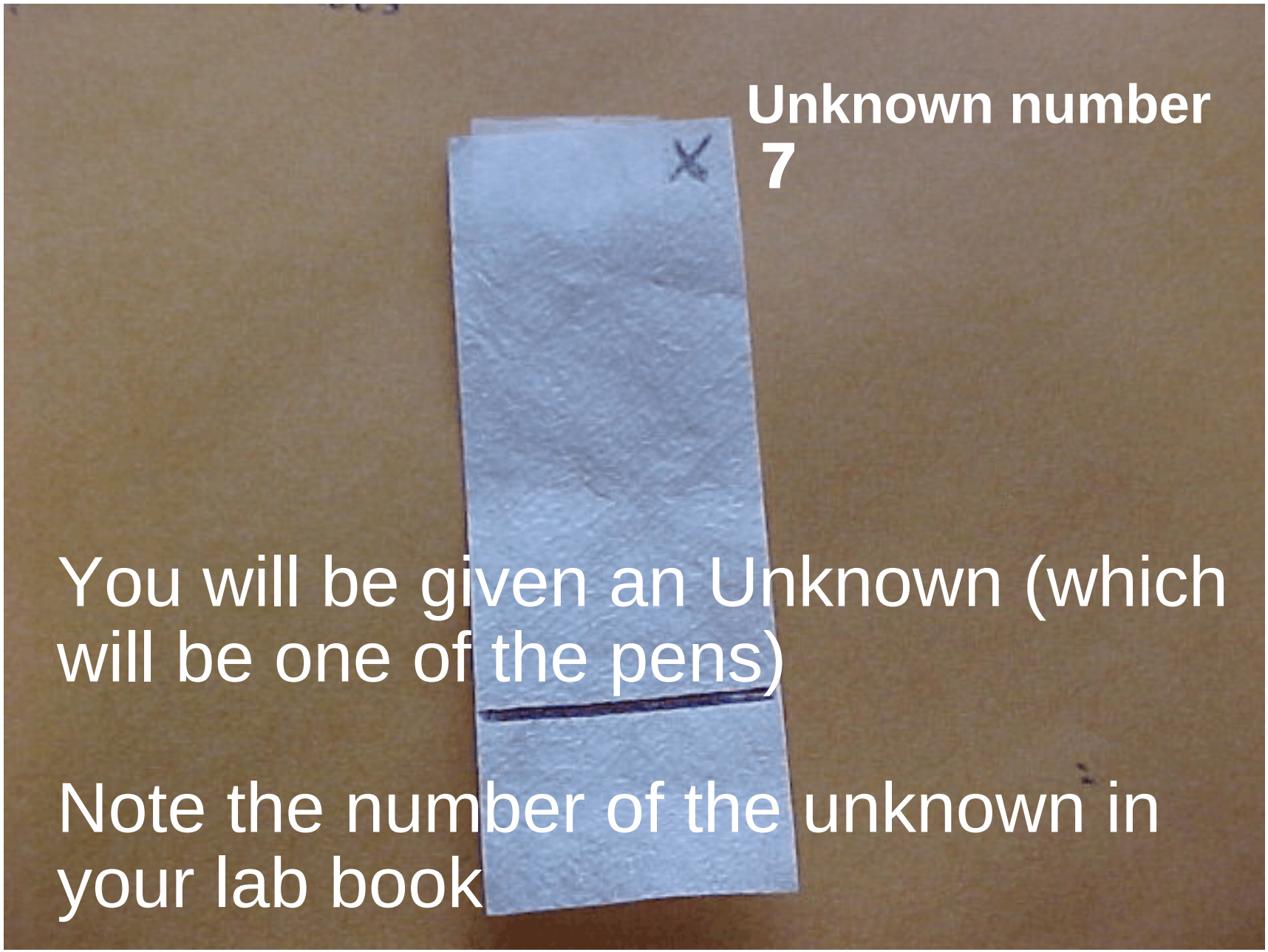
Paper Chromatography

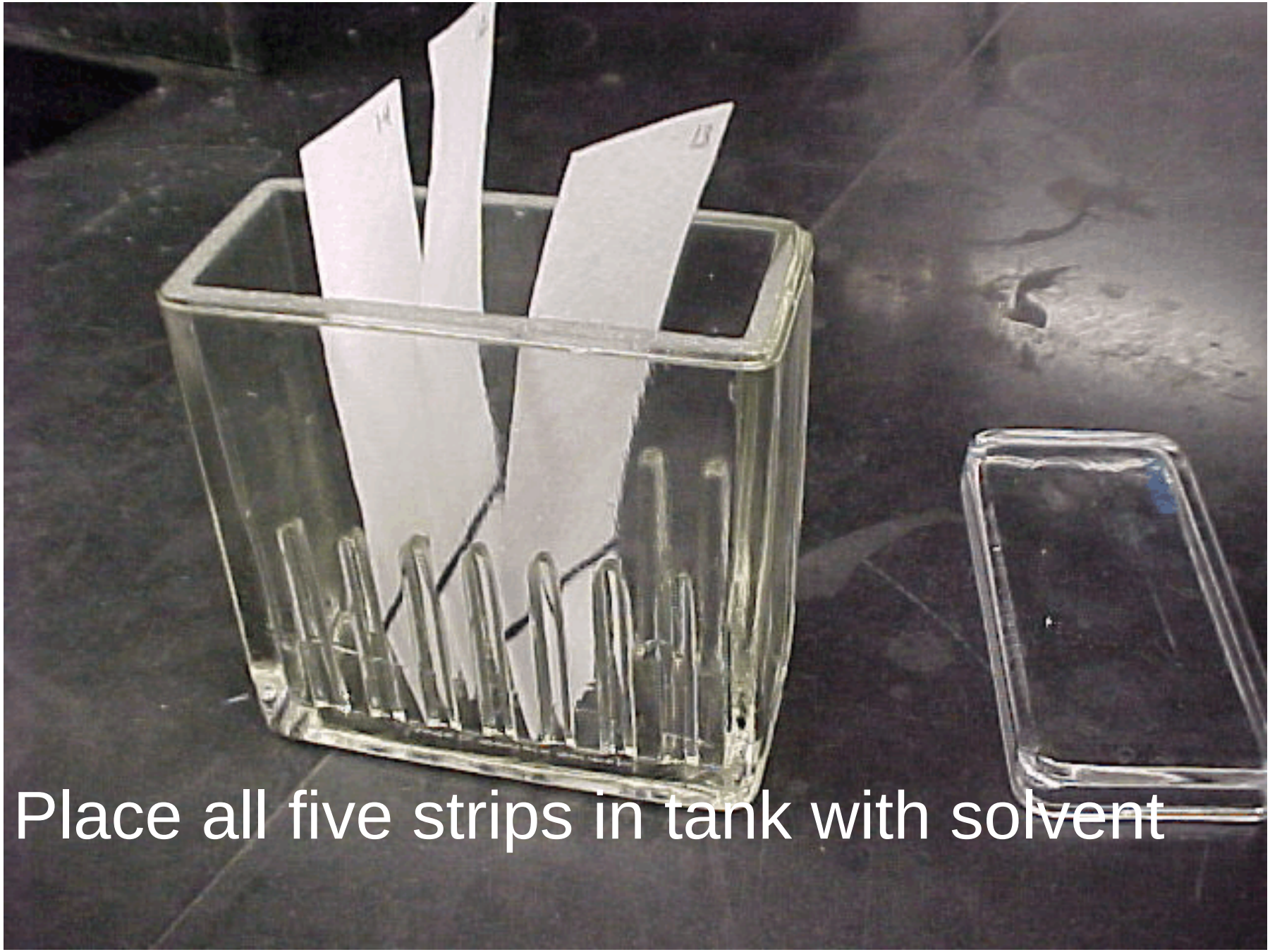
Experiment No. 10

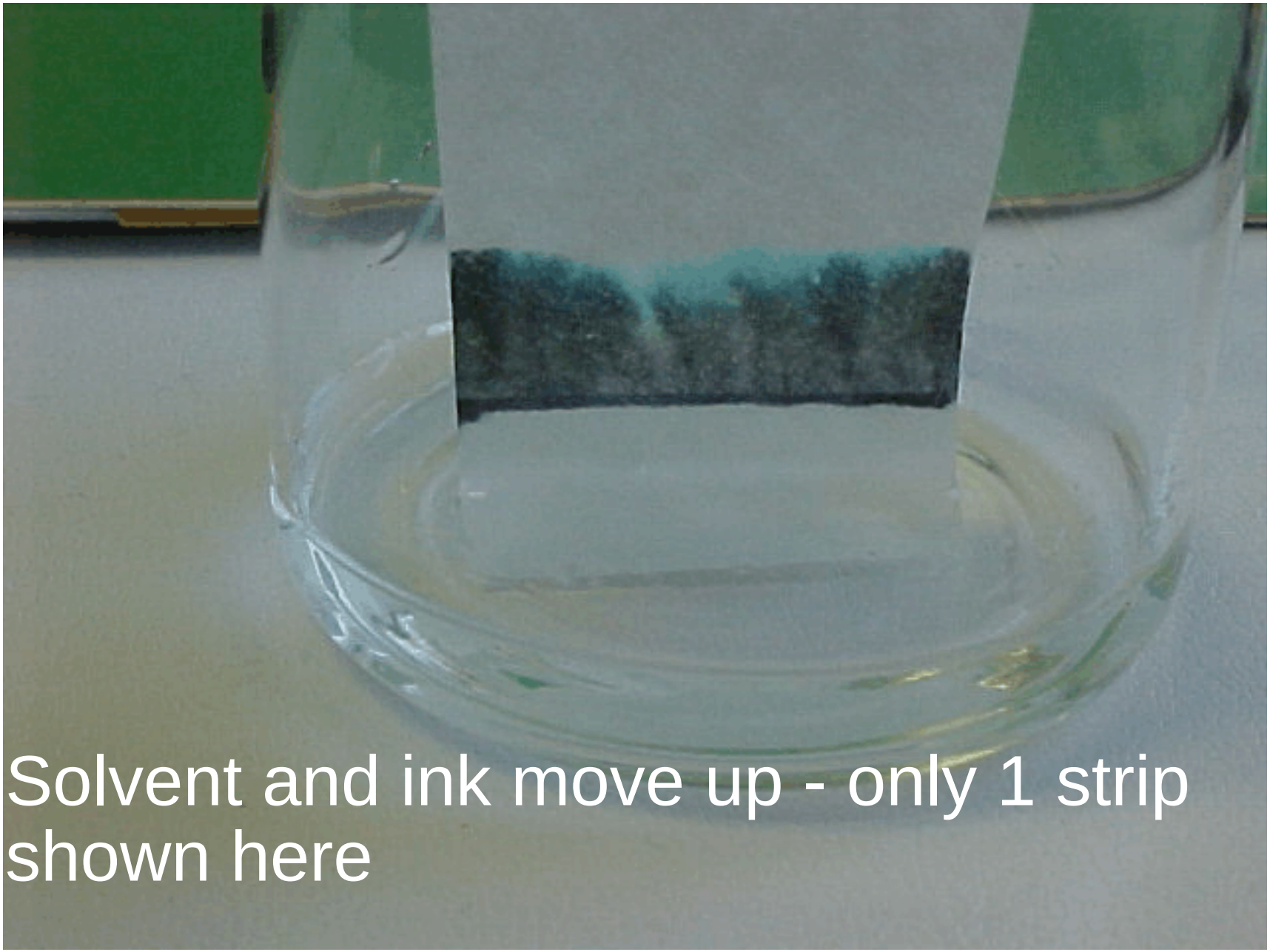

You’re provided with 4 black ink pens

Draw a line for each pen on the strips of paper provided




Unknown number
7
You will be given an Unknown (which will be one of the pens)
Note the number of the unknown in your lab book

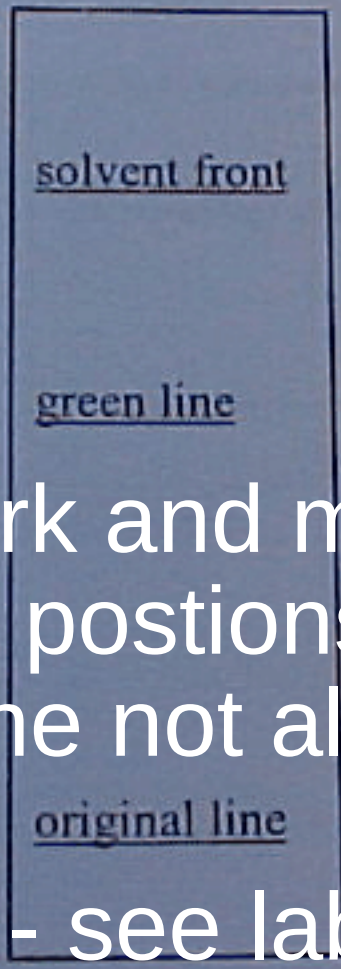

Place all five strips in tank with solvent


Solvent and ink move up - only 1 strip shown here


Data: (Include units.)
Tape the chromatograms of each of the four pens in the area below and write t
name of the pen below the chromatogram:
1
2
3
4
You'll get 4 strips like this, plus the unknown

the following diagram below the distance moved by the green line would correspond

$$R_f = \frac{5\text{ cm} - 2\text{ cm}}{7\text{ cm} - 2\text{ cm}} = \frac{3\text{ cm}}{5\text{ cm}} = 0.6$$



For each mark and measure solvent front and the postions of each line on each strip (line not always even)

Calculate Rf - see lab notes

Identify unknown from Rf values

One lab partner tapes strips to report.

Other lab partner should note: “See partner’s (name) lab report for strips”

Both should still give unknown pen number and identify unknown.

EXPERIMENT : 10

PAPER CHROMATOGRAPHY OF INK

DATA AND OBSERVATIONS

Name(s) : _____ Date : _____

Class/Section : _____ Instructor : _____

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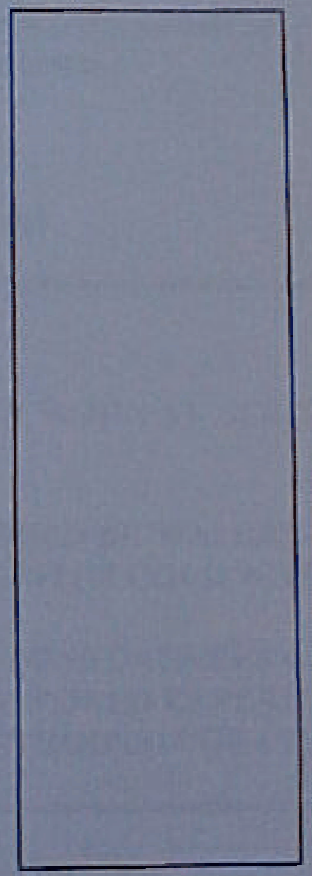
Chromatograms of known pens :

1. _____ (Name)	2. _____ (Name)	3. _____ (Name)	4. _____ (Name)

PAPER CHROMATOGRAPHY OF INK

Chromatogram of Unknown Pen :



Unknown Sample Number : X