TLC & Rf Practice Worksheet

Ten carefully checked problems • Lab Skills • Student copy

Name: _____ Date: _____

Show your reasoning. Use complete chemical notation and units when applicable.

1. A spot travels 2.5 cm and solvent 5.0 cm. Find Rf.

2. A spot travels 1.2 cm and solvent 6.0 cm. Find Rf.

3. A spot travels 4.8 cm and solvent 6.0 cm. Find Rf.

4. Why use pencil for the TLC baseline?

5. What is the stationary phase in common silica TLC?

6. Which of Rf = 0.20 and 0.75 is more strongly retained on the same silica plate?

7. What happens to many Rf values when mobile-phase polarity increases on silica TLC?

8. Where must both distances begin for an Rf calculation?

9. Why mark solvent front immediately?

10. Are Rf values from different mobile phases directly comparable?