## Friction 2



- 23. Two forces are pulling on a 12 kg object: a 25 N force pulls at 30° N of W; a 35 N force pulls due east. A. Find the net force on the object (magnitude and direction again).
  - B. Find the acceleration of the object.
  - C. What force would be necessary to keep it at equilibrium?
- 24. Why does an airplane have an easier time flying at sea level than high in the mountains?
- 25. In very, very old buildings glass windows are warped because glass (a very \_\_\_\_\_\_ fluid) flows down over the centuries .
- 26. Remembering that denser object sink complete the density questions on the back.



## Help on the website: Study Helps/ Chemistry/ Chapter 17/ Density exercises.

Given the following liquid densities: 1.7 g/mL; 3.2 g/mL; 1 g/mL; 0.76 g/mL.

A. Label the density column with where the above liquids will end up.

B. If an object (density 2.45 g/mL) is dropped into the column, where will it land. Draw it or explain.

- C. Label on the left side of the column the one liquid you know.
- D. If D = m/v, how much mass would 30 mL of liquid A have?