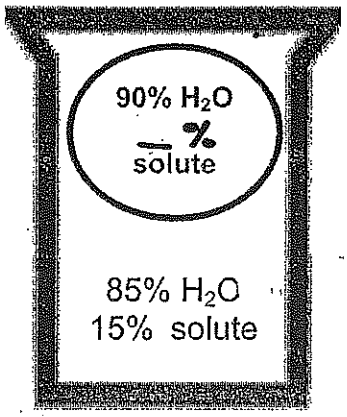
Name: _____ Date: _____ Period: _____ BIN: _____

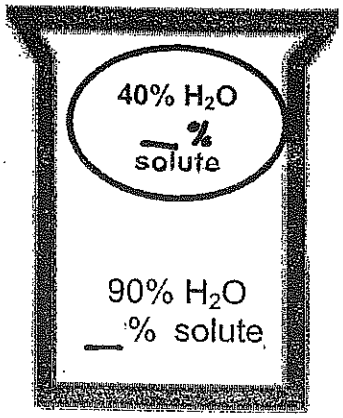
# Osmosis Worksheet #1

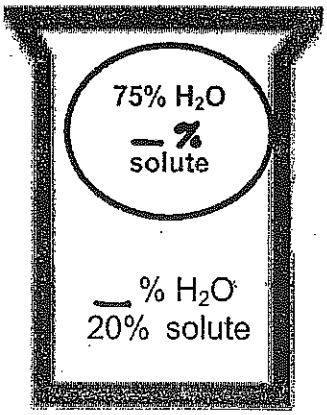
*When providing the best possible answer to the following questions please apply all learned scientific techniques and procedures, do not use abbreviations, use proper scientific terminology, show work for all mathematical calculations, use all significant figure and scientific notation rules, apply appropriate writing strategies, and note that at all times spelling counts. Your ability to meet these and all established classroom expectations, including labeling of BINs, providing heading information, and your ability to follow directions may be included in computation of grade.*

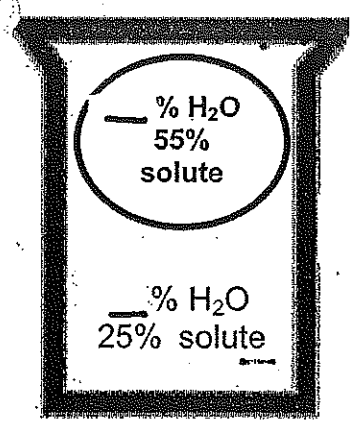
**Below are animal cells placed in beakers containing solutions of various concentrations.**

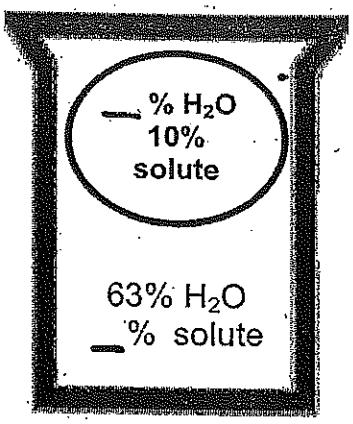
1. **Fill in any missing percentages for the water concentrations and the solute concentrations.**
2. **Draw an arrow clearly showing directional net movement of the water during osmosis.**
3. **Identify the type of solution in the beaker as isotonic, hypertonic or hypotonic.**

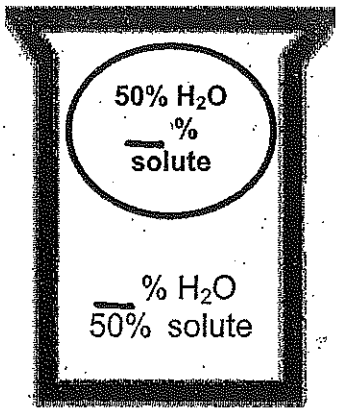


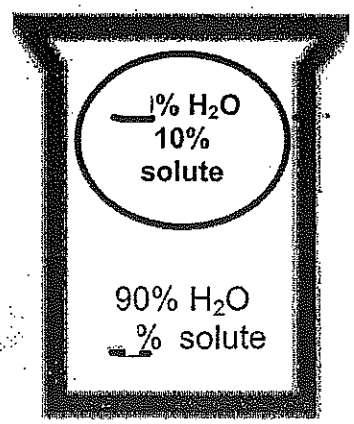



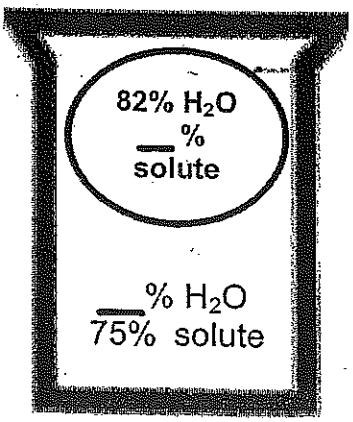



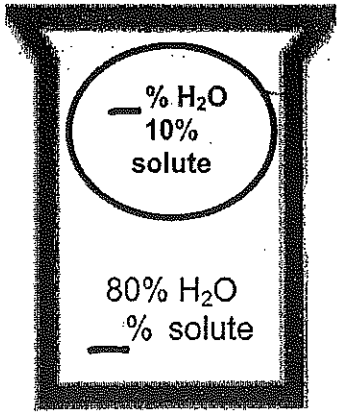



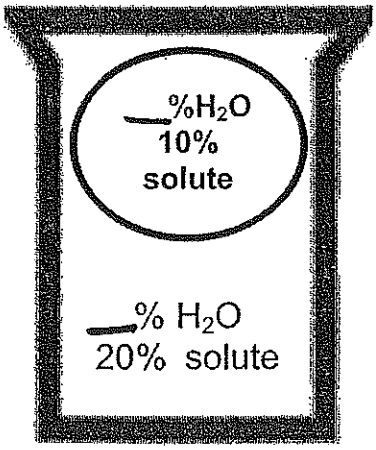



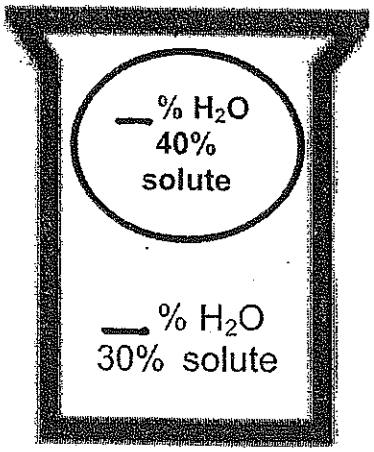



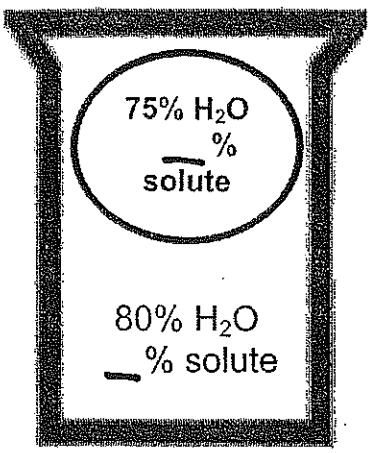



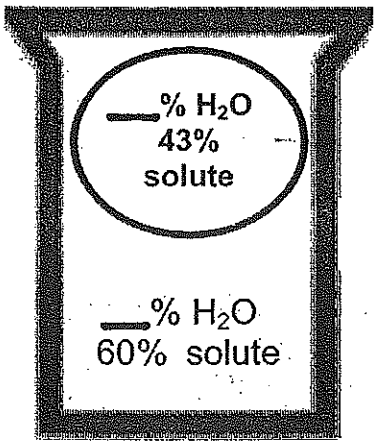



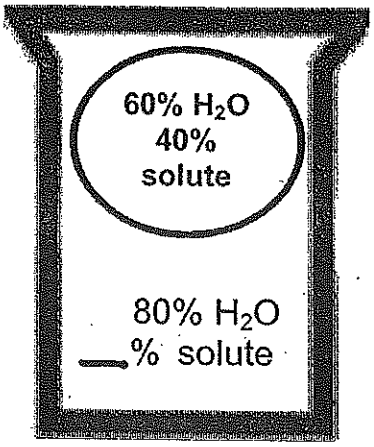



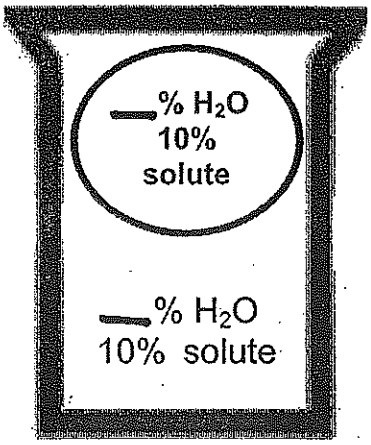

__%H2O
10%
solute
__% H2O
20% solute

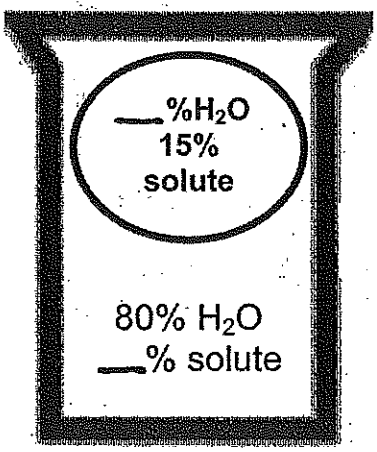

__% H2O
40%
solute
__% H2O
30% solute

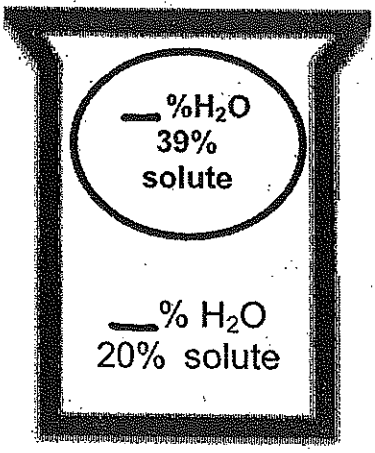

75% H2O
__%
solute
80% H2O
__% solute

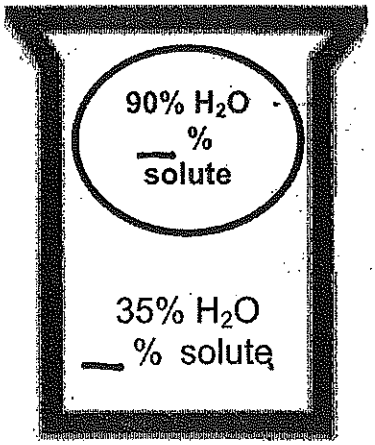

__% H2O
43%
solute
__% H2O
60% solute


60% H2O
40%
solute
80% H2O
__% solute


__% H2O
10%
solute
__% H2O
10% solute


__%H2O
15%
solute
80% H2O
__% solute


__%H2O
39%
solute
__% H2O
20% solute


90% H2O
__%
solute
35% H2O
__% solute