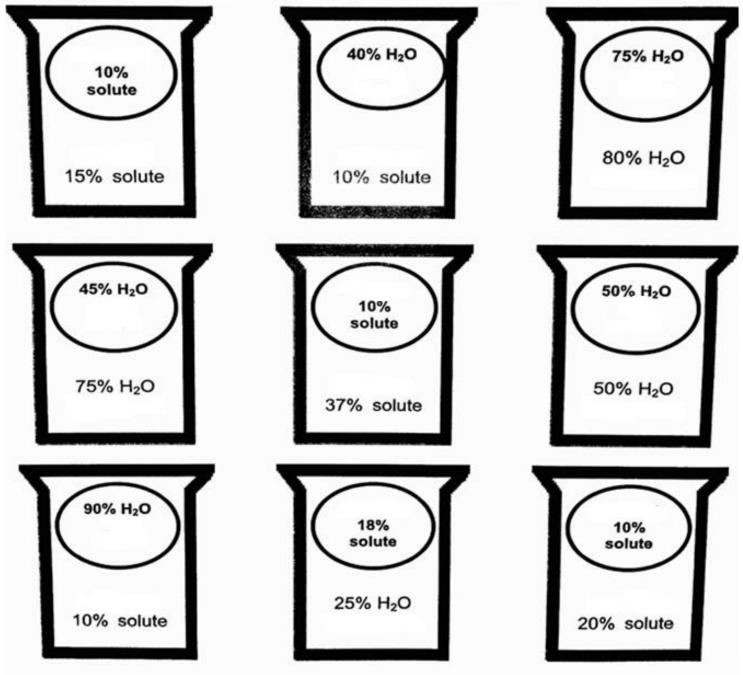
Name:		_ Date:
	Osmosis Practice	
is	s when the concentration of water inside i	s <u>equal</u> to the concentration of
water outside.		
is	s when the concentration of water inside t	the cell is <u>less</u> than outside.
is	s when there is a <u>greater</u> concentration of	water inside the cell than outside.
Problem 1: Cell- 90% water conce	entration Solution- 90% water concent	ration
<ul> <li>What is happening</li> </ul>	to the cell? (Increasing/Decreasing/Stayir	ng in Homeostasis)
<ul> <li>What solution is th</li> </ul>	nis?	
Problem 2: Cell- 90% water conce	entration Solution- 10% water concent	ration
<ul> <li>What is happening</li> </ul>	to the cell? (Increasing/Decreasing/Stayir	ng in Homeostasis)
<ul> <li>What solution is th</li> </ul>	nis?	
Problem 3: Cell- 30% salt concent	ration Solution- 70% salt concentra	tion
<ul> <li>What is happening</li> </ul>	to the cell? (Increasing/Decreasing/Stayir	ng in Homeostasis)
<ul> <li>What solution is th</li> </ul>	nis?	
Problem 4: Cell- 70% water conce	entration Solution- 30% salt concentra	ation
<ul> <li>What is happening</li> </ul>	to the cell? (Increasing/Decreasing/Stayir	ng in Homeostasis)
<ul> <li>What solution is th</li> </ul>	nis?	
Problem 5: Cell- 70% salt concent	ration Solution- 90% water	
<ul> <li>What is happening</li> </ul>	to the cell? (Increasing/Decreasing/Stayir	ng in Homeostasis)
<ul> <li>What kind of solution</li> </ul>	ion is this?	
Problem 6: A freshwater fish has on where the concentration of water	cells that are about 70% water. The fish is r is 60%.	placed in a salt water environment
<ul> <li>What type of solut</li> </ul>	ion is this for the fish?	
<ul> <li>What will happen t</li> </ul>	to the cells of the fish?	
<ul> <li>How will the fish be</li> </ul>	e affected?	

- Problem 7: A cell with a 30% solute concentration is placed in a beaker with a 10% solute concentration. What will happen to the cell over time?
  - What will happen to the cell?
  - What type of a solution is this?

## Below are animal cells placed in beakers of various concentrations.

- 1. Draw an arrow to show which way the water would move by Osmosis.
- 2. Write the missing percentages of water and/or solute.
- 3. Write what each type of solution is. (Isotonic, Hypertonic, or Hypotonic)



1. If an animal cell is placed in distilled water, it will swell and burst. Explain what type of passive transport occurred and what caused the cell to burst.

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- 2. Movement across the cell membrane that does not require energy is called (active / passive) transport.
- 3. Passive transport moves substances down their concentration gradient (with / without) using the cell's energy.