DATE:	NAME:	CLASS:
CHAPTER 3	Osmosis in Animal and Plant	BLM 3-10
WORKSHEET		ANSWERS
	Cells	

1. Identify the solution that the red blood cell was placed in for each situation. Describe the net movement of water and explain what happens to the red blood cell as a result.

Solution	hypotonic solution	hypertonic solution	isotonic solution
Net Movement of Water	water enters the cell	water leaves the cell	no net movement of water
Result	red blood cell may burst (hemolysis)	red blood cell shrivels (crenation)	red blood cell remains the same

2. Explain what would happen to a red blood cell if it is placed in a salt solution that is 0.4%. Water will move into the red blood cell, causing it to expand and burst (or lyse). Hemolysis will result.

3. Identify the solution that the plant cell was placed in for each situation. Describe the net movement of water and explain what happens to the plant cell as a result.

Solution	hypertonic solution	isotonic solution	hypotonic solution
Net Movement of Water	water leaves the cell	no net movement of water	water enters the cell
Result	plant cell membrane pulls away from the cell wall, vacuole loses water, and cytoplasm shrinks (plasmolysis)	plant cell remains the same (flaccid)	plant cell swells because vacuole fills with water and creates turgor pressure and plant cell does not burst (turgid)