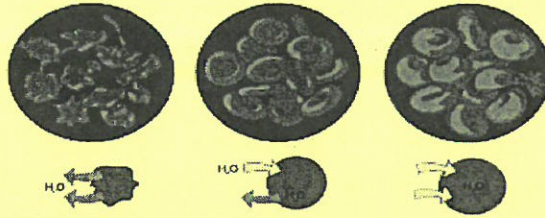


## Types of Solutions Extra Practice

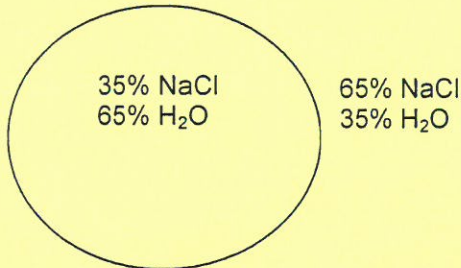
Using the model below, label the following cells as isotonic, hypotonic or hypertonic and provide evidence to support your claim.



	Cell A	Cell B	Cell C
Solution Type			
Evidence			

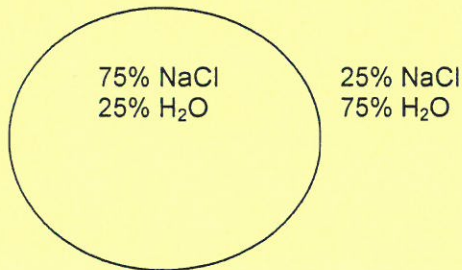
2. Use the diagrams to answer the questions. Draw arrows to indicate the movement of water.

A.



- Water will flow \_\_\_\_\_ (into the cell, out of the cell, in both directions).
- The cell will \_\_\_\_\_ (shrink, burst, stay the same).
- The solution is considered \_\_\_\_\_ (hypotonic, hypertonic, isotonic).

B.

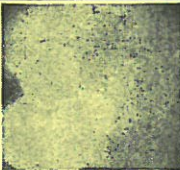



- Water will flow \_\_\_\_\_ (into the cell, out of the cell, in both directions).
- The cell will \_\_\_\_\_ (shrink, burst, stay the same).
- The solution is considered \_\_\_\_\_ (hypotonic, hypertonic, isotonic).

3. Complete the table by checking the correct column for each statement:

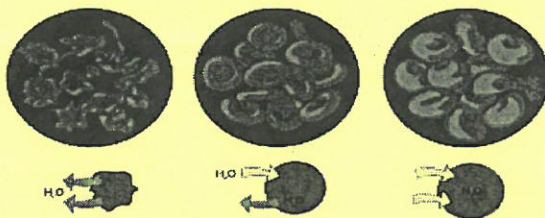
Statement	Isotonic solution	Hypotonic solution	Hypertonic solution
Causes a cell to expand and potentially explode			
Cell stays the same size			
Causes water to move			
Causes a cell to decrease in size			
Water only enters the cell			
Water only exits the cell			
Water enters and exits the cell			

4. Fill in the table below regarding plant cells.

	Water rushes into a plant cell's vacuole after being over-watered.		Plant cell after not being watered lately, so it has begun to wilt.
Is the plant cell in a hypertonic, hypotonic, or isotonic environment?		Is the plant cell in a hypertonic, hypotonic, or isotonic environment?	A. Circle which way will the water go: *Into the vacuole or Out of the vacuole

## Types of Solutions Extra Practice

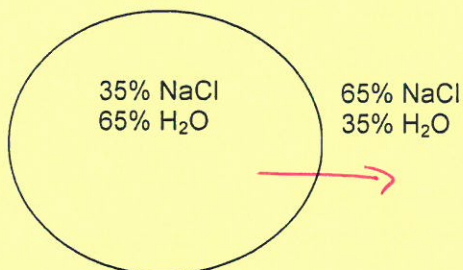
Using the model below, label the following cells as isotonic, hypotonic or hypertonic and provide evidence to support your claim.



	Cell A	Cell B	Cell C
Solution Type	<u>Hypertonic</u>	<u>isotonic</u>	<u>Hypotonic</u>
Evidence			

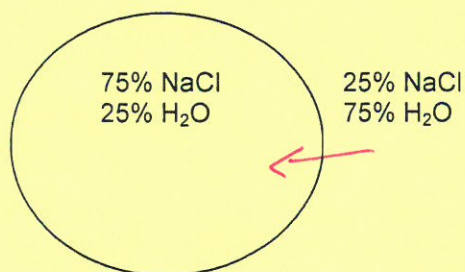
2. Use the diagrams to answer the questions. Draw arrows to indicate the movement of water.

A.



- Water will flow out of the cell (into the cell, out of the cell, in both directions).
- The cell will shrink (shrink, burst, stay the same).
- The solution is considered hypertonic (hypotonic, hypertonic, isotonic).

B.

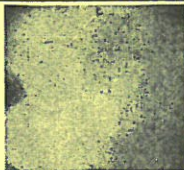



- Water will flow into the cell (into the cell, out of the cell, in both directions).
- The cell will burst (shrink, burst, stay the same).
- The solution is considered hypotonic (hypotonic, hypertonic, isotonic).

3. Complete the table by checking the correct column for each statement:

Statement	Isotonic solution	Hypotonic solution	Hypertonic solution
Causes a cell to expand and potentially explode		X	
Cell stays the same size	X		
Causes water to move	X	X	X
Causes a cell to decrease in size			X
Water only enters the cell		X	
Water only exits the cell			X
Water enters and exits the cell	X		

4. Fill in the table below regarding plant cells.

	Water rushes into a plant cell's vacuole after being over-watered.		Plant cell after not being watered lately, so it has begun to wilt. A. Circle which way will the water go: *Into the vacuole or <u>Out of the vacuole</u>
Is the plant cell in a <u>hypertonic</u> , <u>hypotonic</u> , or isotonic environment?		Is the plant cell in a <u>hypertonic</u> , <u>hypotonic</u> , or isotonic environment?	