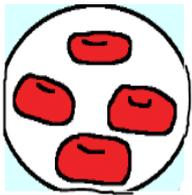
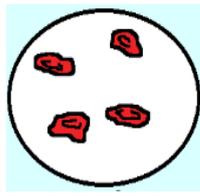
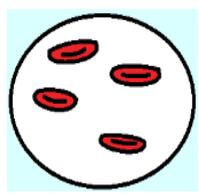


The Gummy Bear Mystery

<p>Do you like gummy bears? We do! They are one of our favorite snacks, though we (try to) eat them in moderation because they are high in sugar. Consider that your sister is in a foul mood and decides to dump your gummy bears in your ice water about 30 minutes before you get home.</p> <p>The gummy bears are greatly enlarged by the time you get home! Your sister and some friends have different viewpoints for what happened. Draw a diagram below showing the enlarged gummy bears in a cup of water. Place the labels "hypertonic" and "hypotonic" in your diagram. One label should be for the gummy bears and one label should be for the water.</p> <p>5. <i>Before the gummy bears are placed in water they are hypertonic then once they are placed in the water they become hypotonic because all the water moves in the gummy bears and causes them to swell.</i></p>	<p>Viewpoints:</p> <p>A) Your sister said that the sugar left the gummy bears, because the gummy bears were hypertonic compared to the water.</p>	<p>6. Whose viewpoint is correct in the viewpoint column? A good answer has a good defense! Defend your answer, and also give reasons why the other explanations are incorrect.</p> <p><i>B is correct because the gummy bears were hypertonic and water moves to higher concentrations which would be the gummy bears so the water moves into the gummy bears which causes them to swell.</i></p> <p><i>A is incorrect because if sugar left the gummy bears it would shrink, not grow.</i></p> <p><i>C is incorrect because the sugar didn't move the water did.</i></p> <p><i>D is incorrect because this would mean the water had more solute which is wrong because the gummy bears were hypertonic and the water was just plain.</i></p>
	<p>B) Your friend Joe said that water traveled into the gummy bears, because the gummy bears were hypertonic compared to the water.</p>	
	<p>C) Your friend Suzy said the sugar went into the gummy bears, because the gummy bears were hypotonic compared to the water.</p>	
	<p>D) Your friend Will said that water traveled into the gummy bears by osmosis, because the gummy bears were hypotonic compared to the water.</p>	

Hypertonic, Hypotonic, or Isotonic? Oh My!

These red blood cells have all been placed in different solutions! Based on their appearance after being placed in these solutions for a period of time, place on each line (A) for **hypertonic**, (B) for **hypotonic**, or (C) for **isotonic**.

<p>7. The cells are <u>Hypertonic</u> compared to the <u>Hypotonic</u> solution.</p>  <p>SWELLING</p>	<p>8. The cells are <u>Hypotonic</u> compared to the <u>Hypertonic</u> solution.</p>  <p>SHRINKING</p>	<p>9. The cells are <u>Isotonic</u> compared to the <u>isotonic</u> solution.</p>  <p>Stable</p>
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