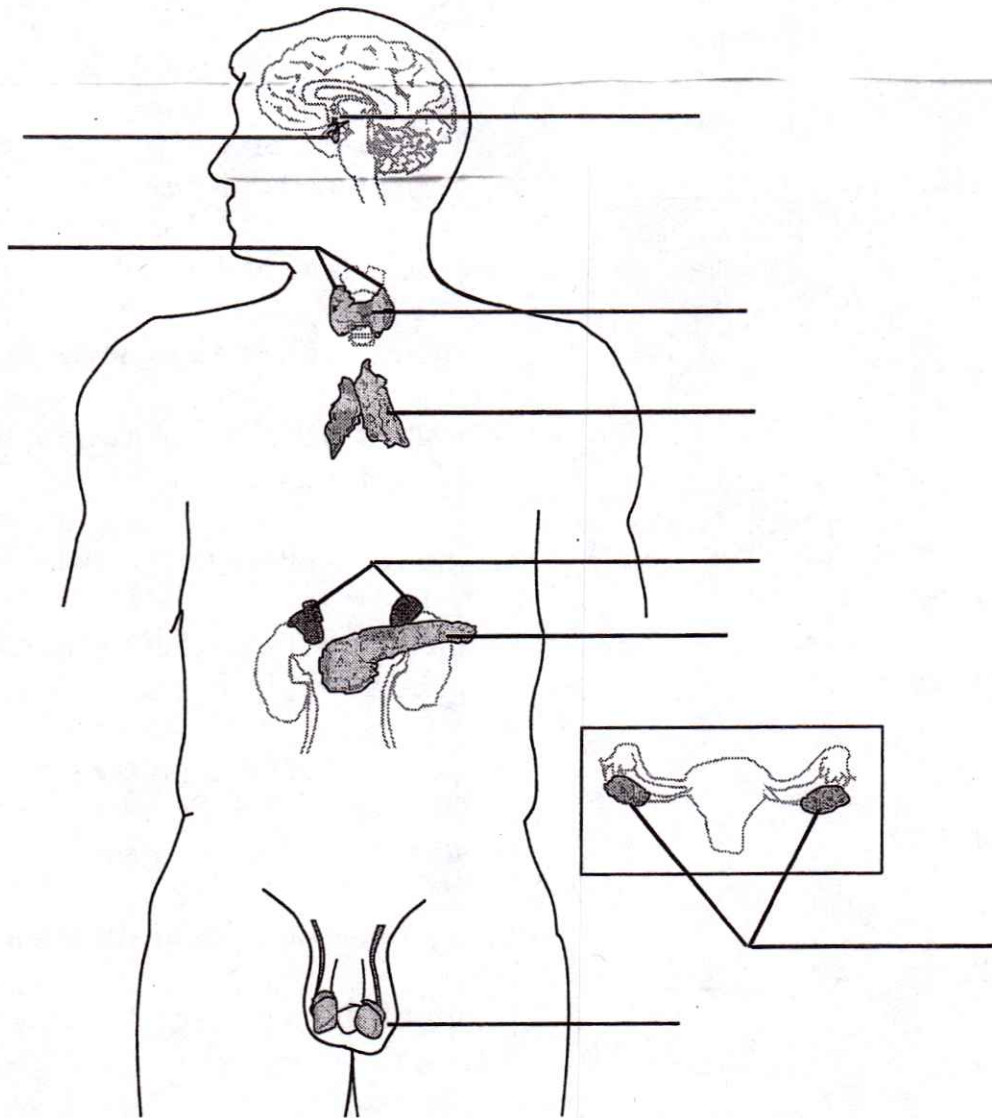


**THE ENDOCRINE SYSTEM**  
**The Location of the Endocrine Glands**

**Directions:** Place the words from the box at the bottom of the page next to the appropriate lines on the diagram.



Pancreas	Hypothalamus	Pituitary	Parathyroid	Ovaries
Adrenal	Thyroid	Thymus	Testes	

**THE ENDOCRINE SYSTEM**  
Match

**Directions: Match the functions described in column B with the endocrine gland listed in column A.**

Column A

Column B

Hypothalamus \_\_\_\_\_

1. produces male sex characteristics

2. decreases blood sugar level

Pituitary \_\_\_\_\_  
\_\_\_\_\_

3. increases heart and breathing rate,  
raises blood pressure

4. produces female sex characteristics

5. increases blood sugar level

Thyroid \_\_\_\_\_  
\_\_\_\_\_

6. regulates the level of calcium and  
phosphorus

7. increases rate of metabolism

Thymus \_\_\_\_\_

8. maintains the level of calcium and  
phosphorus in the blood

9. development of immune system

Adrenals \_\_\_\_\_

10. stimulates skeletal growth

Pancreas \_\_\_\_\_  
\_\_\_\_\_

11. regulates the activities of other glands

12. stimulates development of male and  
female sex organs

Ovaries \_\_\_\_\_

Testes \_\_\_\_\_

Parathyroids \_\_\_\_\_

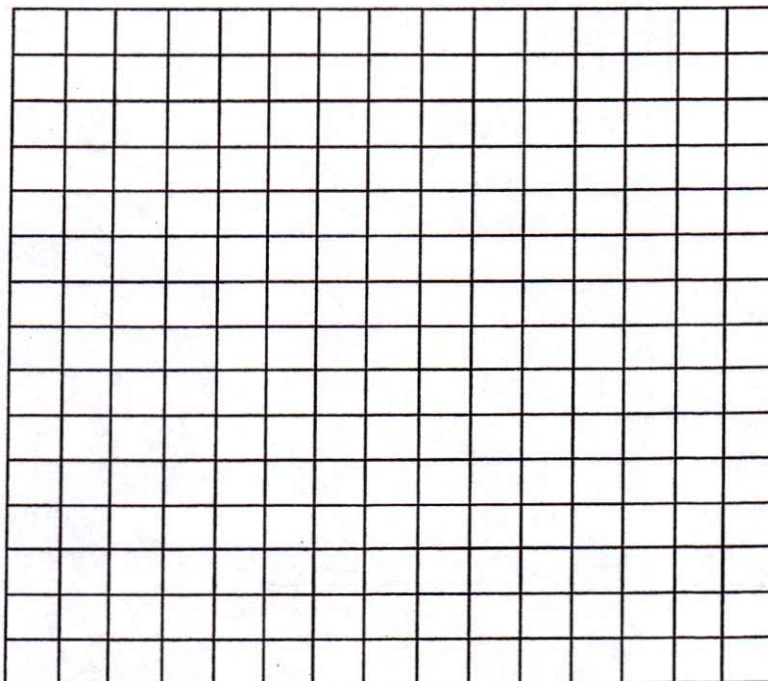
Name \_\_\_\_\_

### Diabetes Graphing Activity

Diabetes is a disease affecting the insulin producing glands of the pancreas. If there is not enough insulin being produced by the cells, the amount of glucose in the blood will remain high. A blood glucose level above 140 for an extended period of time is not considered normal. This disease, if not brought under control, will lead to severe complications and even death.

Use the data in the table below to complete the graph provided.  
Remember to give your graph a title, label the axes, & make a key

<u>Time After Eating (hrs.)</u>	<u>Glucose Level in ml/liter of blood in person A</u>	<u>Glucose Level in ml/liter of blood in person B</u>
0.5	170	180
1	155	195
1.5	140	230
2	135	245
2.5	140	235
3	135	225
4	130	200



<b>KEY</b>	
<b>PersonA</b>	
<b>PersonB</b>	

**Analysis Questions:**

1. Which, if any, of the two individuals have diabetes? Make sure you support your answer.

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2. If the time period was extended to 6 hours, what would be the expected blood sugar level for Person B? \_\_\_\_\_

3. What would be a probable blood sugar level for Person B at 3.5 hours? \_\_\_\_\_

4. Using one or more sentences, state a valid conclusion for the graph.

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