

Bell Work
February 24– 28, 2014
ACT Prep,

Bell Work, Monday, 2/24/14

Incubation Temperature of Turtle Eggs Versus Sex of Hatchling

Four Groups of 25 Eggs	Temperature	Number of Male	Number of Female	Eggs Not Hatched
Group 1	26°C	21	2	2
Group 2	28°C	13	11	1
Group 3	30°C	1	19	5
Group 4	32°C	1	20	4

1. At what temperature did most of the turtle eggs hatch?
- A. 26°C B. 28°C C. 30°C D. 32°C

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2. What temperature produced the most females?

- A. 26 C
- B. 28°C
- C. 30°C
- D. 32°C

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Four Groups of 25 Eggs	Temperature	Number of Male	Number of Female	Eggs Not Hatched
Group 1	26°C	21	2	2
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3 **What temperature produced the most males?**
A. 26°C B. 28°C C. 30°C D. 32°C

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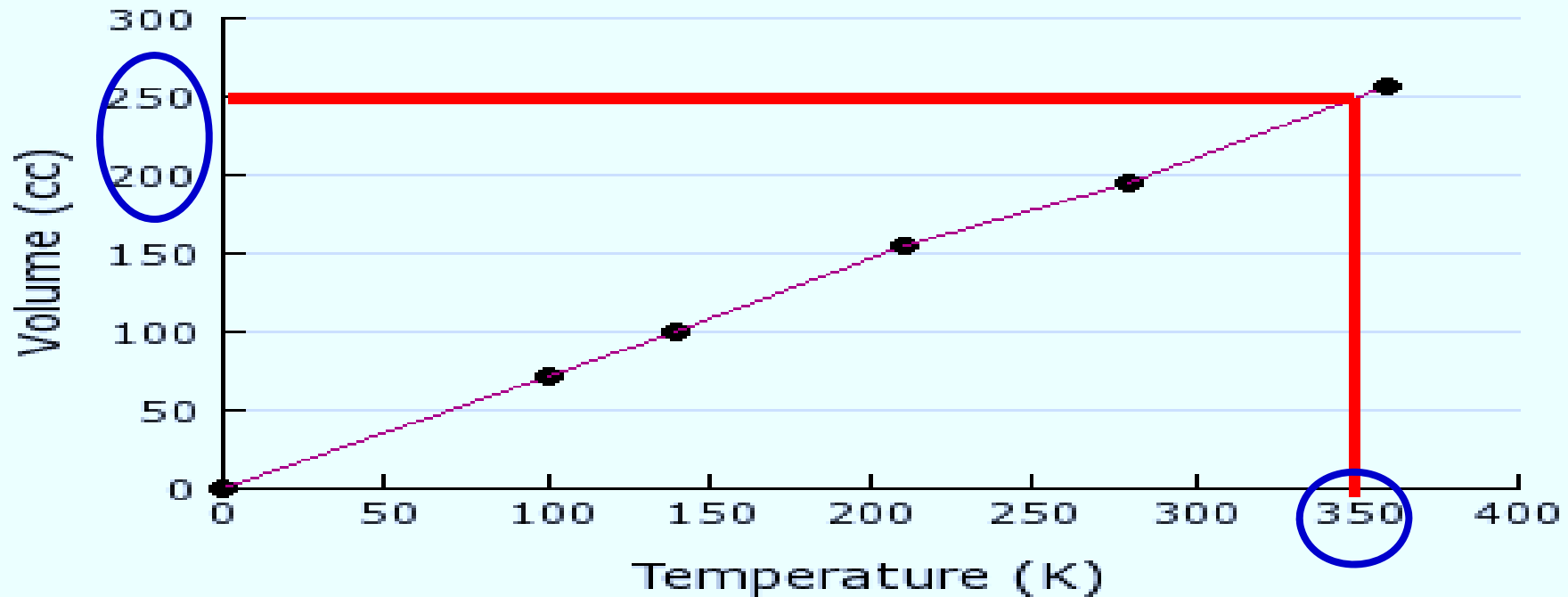
4. What conclusion can be made about the relationship between incubation temperature and the number of male hatchlings in comparison to incubation temperature and the number of female hatchlings?

- A. Higher temperatures during incubation produce more males, and lower temperatures during incubation produce more females.
- B. Higher temperatures during incubation produce more females, and lower temperatures during incubation produce more males.**
- C. Higher temperatures during incubation caused more eggs to hatch.
- D. No relationship can be determined between incubation temperature and the sex of turtle hatchlings.



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Temperature and Volume of a Gas



1. Interpolate to find the approximate volume of the flexible container at 350K.

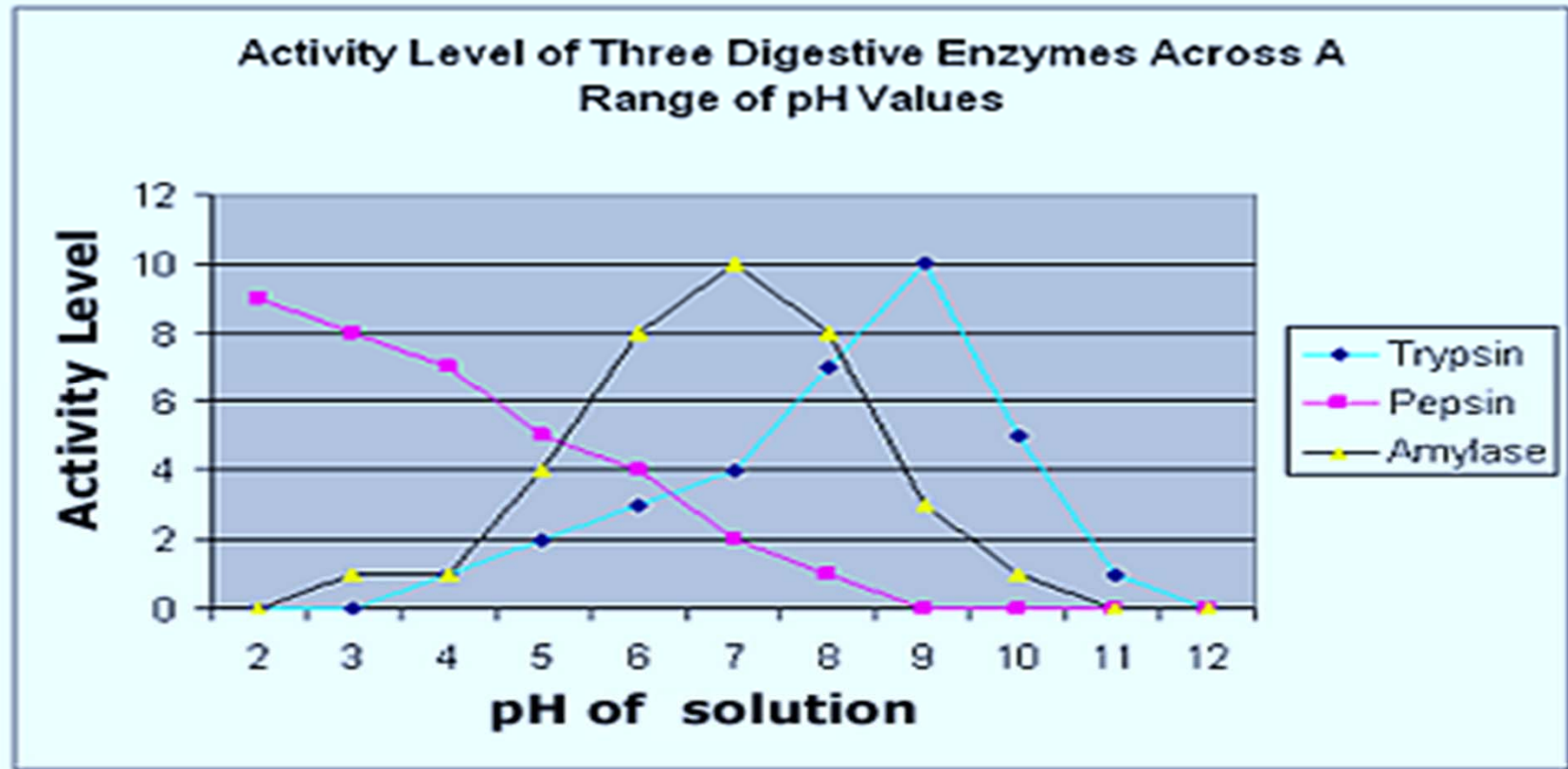
A. 200 cm³ B. 225 cm³ **C. 250 cm³** D. 255 cm³

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2. Explain the pH scale.

Less than 7 is acidic, greater than 7 is basic, pH 7 = neutral

3. Draw the graph

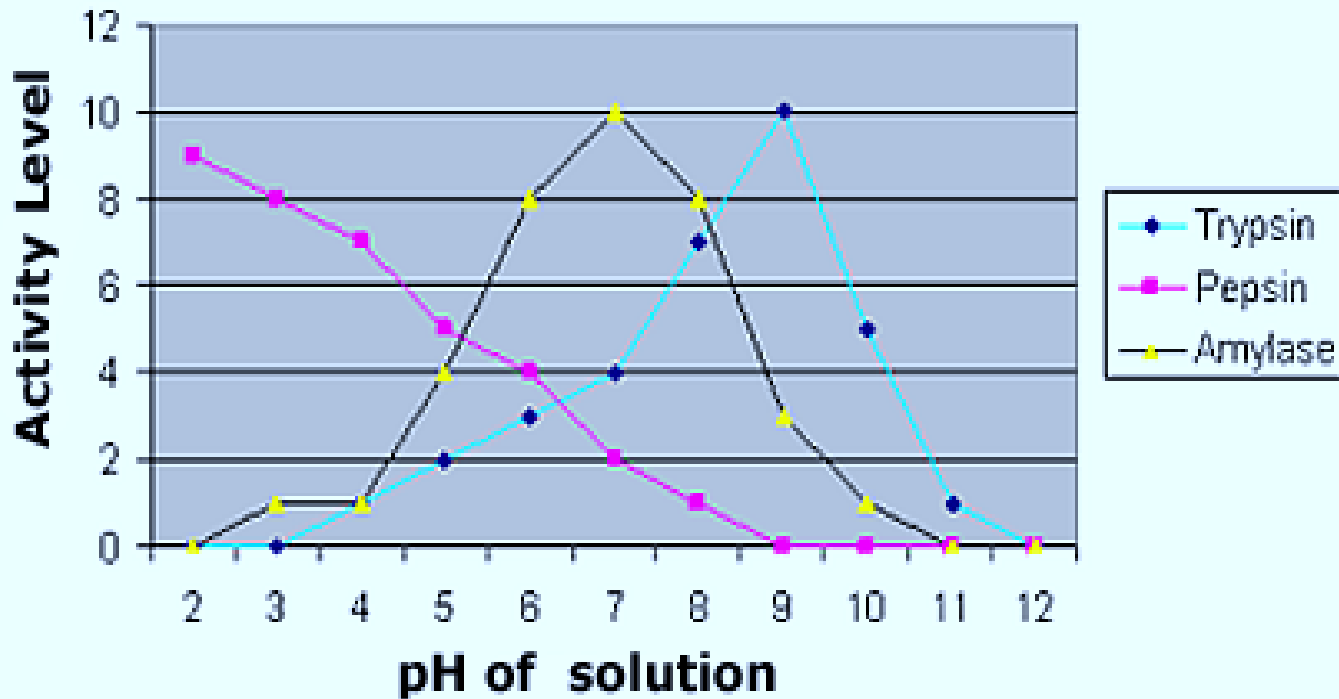


3. Which enzyme is likely to be active in the acidic environment of the stomach?

- A) pepsin B) trypsin C) amylase D) pepsin and trypsin

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Activity Level of Three Digestive Enzymes Across A Range of pH Values



The graph illustrates the activity level of three common digestive enzymes, across a range of pH values.

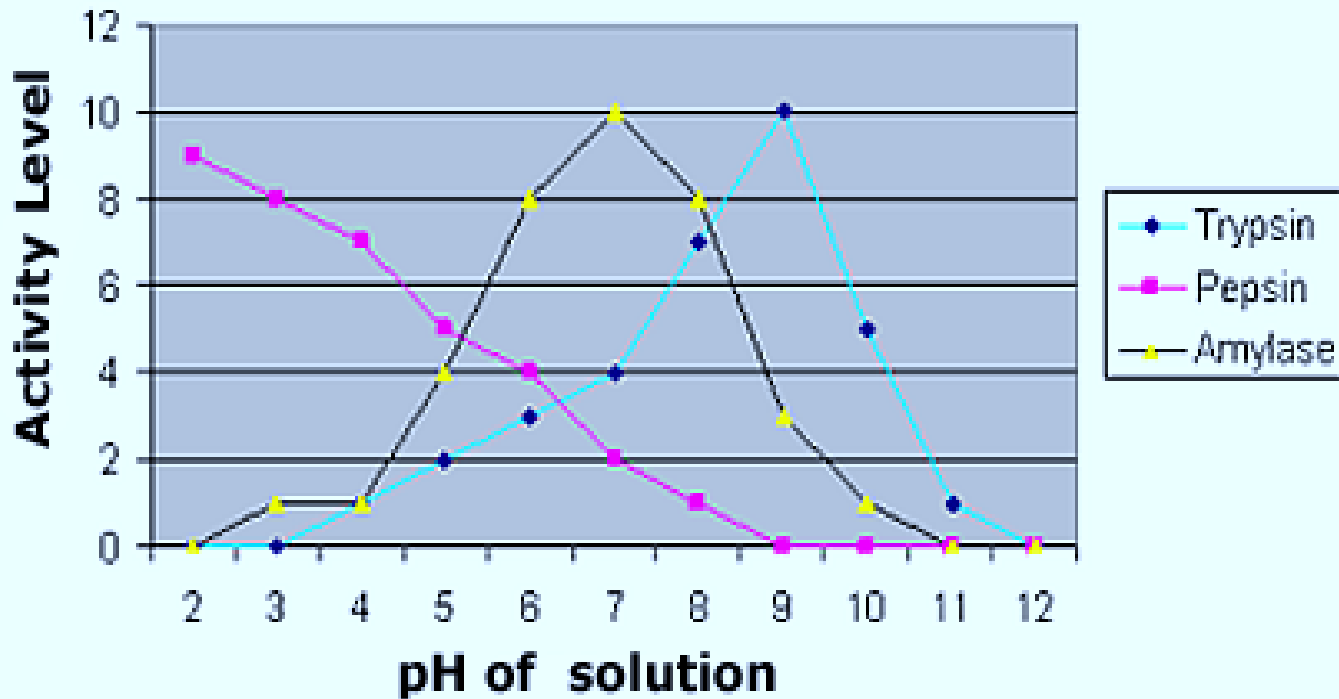
Less than 7 is acidic, greater than 7 is basic, pH 7 = neutral

1. Which enzyme is likely to be active in a neutral environment?

- A) pepsin B) trypsin **C) amylase** D) pepsin and trypsin

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Activity Level of Three Digestive Enzymes Across A Range of pH Values



The graph illustrates the activity level of three common digestive enzymes, across a range of pH values.

2. Which enzyme is likely to be active in a basic environment?

- A) pepsin **B) trypsin** C) amylase D) pepsin and trypsin