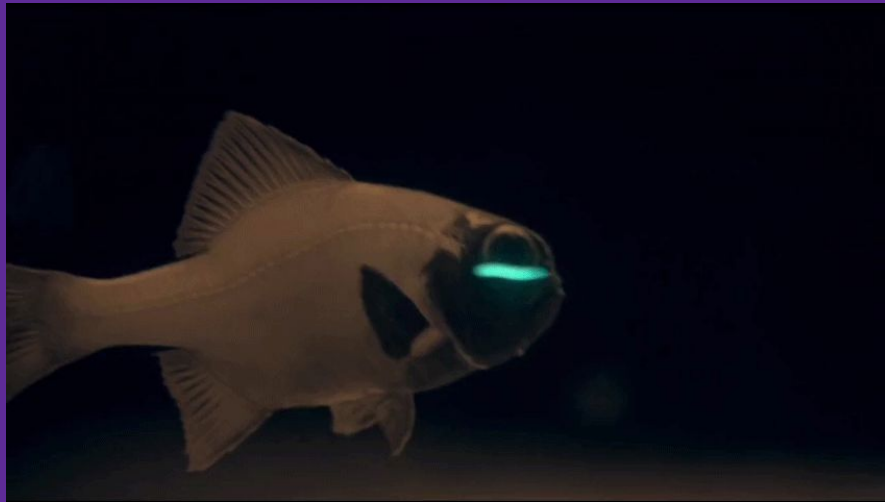


Biology PAT Questions



Answer: D 78.9% Correct

1. One **advantage** of asexual reproduction is that it
 - A. leads to greater variation within a species
 - B. allows offspring to adapt to environmental changes quickly
 - C. leads to long-term bonds between the offspring and the parent
 - D. allows a population to grow substantially over a short period of time

Answer: B 52.2% Correct

Use the following information to answer question 3.

- Wolves prey on elk.
- Elk consume willow shrubs.
- Willow shrubs along stream banks provide shade.
- Bull trout require cool water temperatures.

3. Which of the following changes is **most likely** to occur as a result of a decreased wolf population?
- A. A decreased number of elk
 - B. A decreased number of bull trout
 - C. An increased number of willow shrubs
 - D. An increased number of predators of wolves

Answer 122

67.2% Correct

Numerical Response

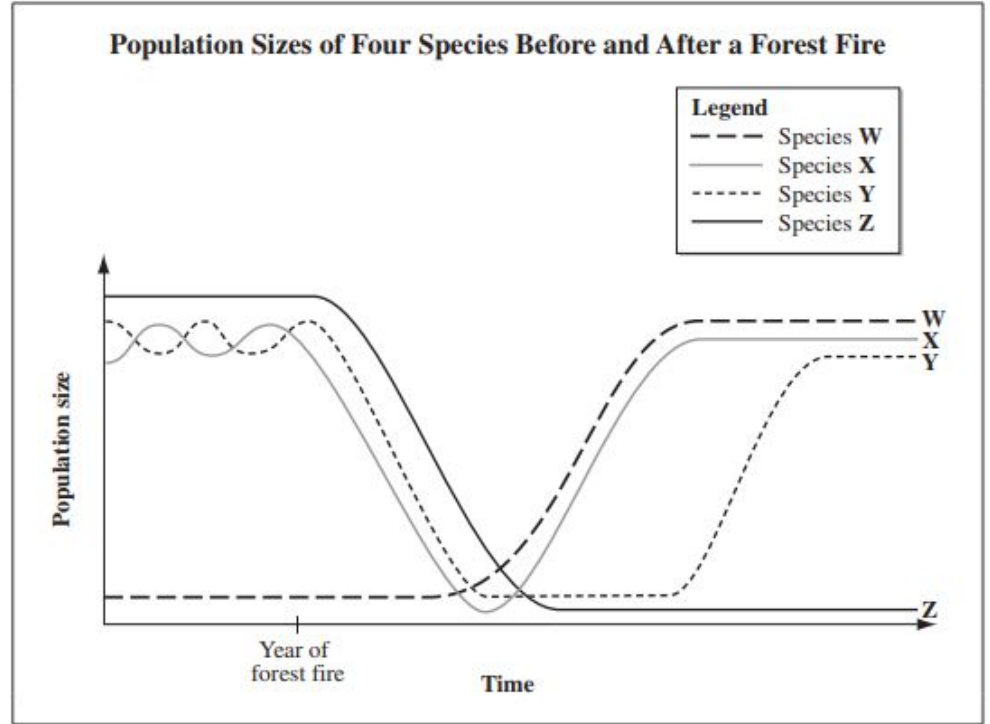
1. Use the following code to indicate the type of variation that is associated with each of the human traits listed below.

1 = Discrete variation
2 = Continuous variation

Variation:	_____	_____	_____
Trait:	Gender	Height	Hand size

Answer: A
47.3% Correct

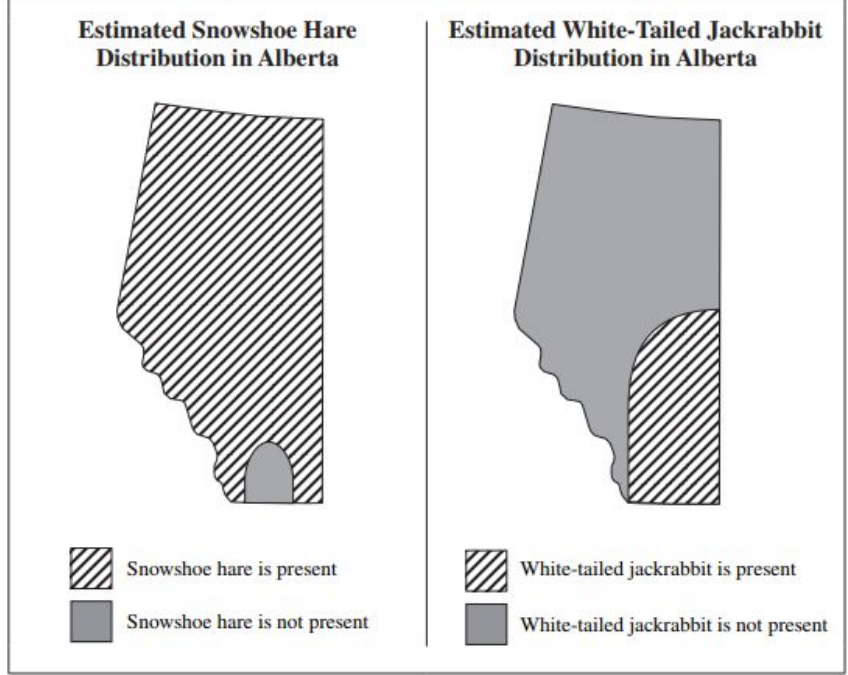
Use the following information to answer question 4.



4. Given the trends on the graph shown above, which species has the broadest niche?

- A. W
- B. X
- C. Y
- D. Z

Answer: D
61.2% Correct



6. According to the information above, the white-tailed jackrabbit has a *i* niche and is a better example of a *ii* species than the snowshoe hare.

The statement above is completed by the information in row

Row	<i>i</i>	<i>ii</i>
A.	broader	generalist
B.	broader	specialist
C.	narrower	generalist
D.	narrower	specialist

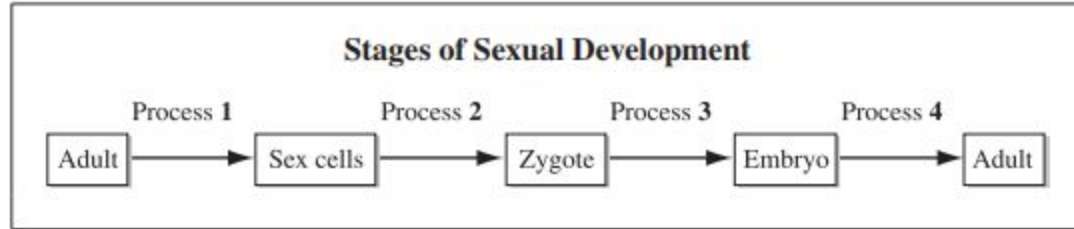
Answer: C 80.6% Correct

9. Which part of a cell carries information about heritable traits?

- A. A cell wall
- B. A chloroplast
- C. A chromosome
- D. A cell membrane

Answer: B 70.4% Correct

Use the following flow chart to answer question 2.



2. In the flowchart above, the stage at which fertilization takes place is labelled

- A. Process 1
- B. Process 2
- C. Process 3
- D. Process 4

Answer: B 50.8% Correct

Use the following information to answer question 10.

Human cells normally have 46 chromosomes. Klinefelter syndrome results when human cells have 47 chromosomes.

10. Klinefelter syndrome is the result of a defect that occurs during
- A. mitosis
 - B. meiosis
 - C. artificial selection
 - D. asexual reproduction

Answer: B 46.2% Correct

A man and a woman who both have brown hair have three children. Two of the children have brown hair and one child has blonde hair.

The gene that codes for brown hair (B) is dominant to the gene that codes for blonde hair (b).

8. The gene pair combinations of the man and the woman are **most likely**

- A. bb and bb
 - B. Bb and Bb
 - C. BB and Bb
 - D. BB and BB
-

Answer: A 74.5% Correct

5. Which of the following human traits is influenced by environmental factors?
- A. Mass
 - B. Blood type
 - C. Colour-blindness
 - D. Ability to roll tongue

Answer: D
68.0%
Correct



7. Which of the following countries contains the **most** biological diversity?
- A. United States
 - B. Argentina
 - C. Canada
 - D. Brazil