Chapter 33 Standardized Test Prep

TEST TIP When using experimental data to answer a question, determine the contents, variables, and control before answering the question.

Science Concepts

1. Which organ system releases hormones that can trigger behavior?

A nervous system **C** endocrine system
B sensory system **D** circulatory system

2. Which factor is an internal factor that influences behavior?

F predators **H** air temperature
G hunger level **J** prey abundance

3. What is another name for innate behavior?

A habituation **C** learned behavior
B intuitive behavior **D** instinctive behavior

4. What is the ability to use experience to develop an insight into how to solve a new problem?

F reasoning
G habituation
H operant conditioning
J classical conditioning

5. Which mode of communication lasts longest in the environment?

A sound **C** visual signal
B touch **D** chemical signal

6. Which of the following species have complex language?

F only humans
G apes and humans
H dolphins and humans
J dolphins, apes and humans

7. What name is given to the ritual that precedes mating and may help in species recognition?

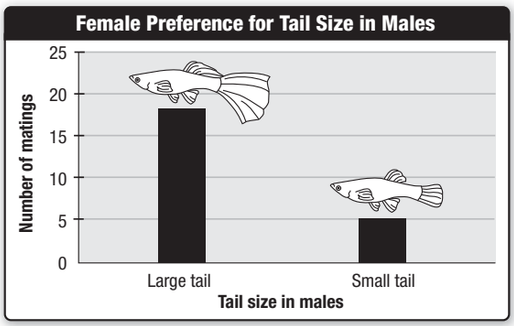
A courtship **C** reproduction
B mate choice **D** sexual selection

Writing Skills

8. Short Response Write a short essay that describes the costs and benefits of communication through visual signals.

Using Science Graphics

Use the diagram to answer the following questions.



9. Which of the following statements best describes the data presented in the graph?

F females have no preference for tail size
G more males have large tails than small tails
H females prefer to mate with small-tailed males
J females mate more often with large-tailed males than with small-tailed males

10. Which of the following best explains the fact that certain males have larger tails than other males?

A imprinting **C** courtship
B habituation **D** sexual selection

Use the table to answer the following questions.

Behavior	Number of years of reproduction	Number of offspring/ year of reproduction
1	1	2
2	1	4
3	2	3
4	3	1

11. Which behavior produces the highest number of offspring per year of reproduction?

F 1 **H** 2
G 3 **J** 4

12. Which behavior is favored by natural selection?

A 1 **C** 2
B 3 **D** 4

State Resources



For specific resources for your state, visit go.hrw.com and type in the keyword **HSHSTR**.

Test Practice with Guided Reading Development

Answers

1. C
2. G
3. D
4. F
5. D
6. F
7. A
8. Visual communication occurs rapidly and is easy to produce. It is also easy for the receiver of the signal to know who is signaling. However, visual communication does not attract attention easily and does not travel very far.
9. J
10. D
11. H
12. B

TEST DOCTOR

Question 2 Hunger is the only internal factor listed, so **J** is correct. **F, G,** and **H** are all external to the organism and are therefore incorrect.

Question 3 The term *innate* should clue the student to behaviors that are not learned through experience. **D** is the only behavior unrelated to experience, so it is correct. **A, B,** and **C** are incorrect because learning, intuition, and habituation all stem from experiences.

Question 4 Problem solving clues the student to reasoning, so choice **H** is correct. Choices **F, G,** and **J** all represent same responses to the same stimuli.

Question 9 The title of the graph tells students that the size of the bars in the graph relates to mating preferences. The largest mating preference is seen with large-tailed males, so choice **H** is correct. Choice **F** is incorrect because the graph is not showing a comparison of number of males by tail size. Choice **G** is incorrect because the data indicate that small-tailed fish are less preferred. Choice **J** is incorrect because the bars on the graph are not equal.