

## Answers to Review of Chapter 6

1. (3) 2. (2) 3. (4) 4. (3) 5. (4) 6. (1) 13. (3) 14. (1) 15. (2) 16. (2) 17. (2) 18. (4)  
7. (1) 8. (3) 9. (1) 10. (1) 11. (1) 12. (1) 19. (1) 20. (4)

## Answers to Questions in Reviewing Intermediate-Level Science

### PLACING ORGANISMS IN GROUPS

#### Review Questions Pages 178–179

##### Part I

1. (4) 2. (1) 3. (3) 4. (2)

##### Part II

5. They are in the same family  
6. 3  
7. *Quercus primus*  
8. Long acorns  
9. Virginia live oak or *Quercus virginiana*  
10. genus  
11. Their leaves have no lobes or teeth and they both have long acorns.

### REPRODUCTION

#### Pages 181–182—Process Skill 1: Interpreting Information in a Table

1. (3) 2. (4) 3. (1) 4. (2)  
5. Mammals have internal fertilization and internal development.

#### Review Questions Pages 184–186

##### Part I

12. (4) 13. (2) 14. (4) 15. (4) 16. (1) 17. (3)  
18. (1)

##### Part II

19. asexual reproduction, binary fission  
20. The offspring have the same genetic makeup as the parent.  
21. egg, or ovule

22.

Type of Cell	Number of Chromosomes
Body	56
Sperm	28
Egg	28
Zygote	56

### HEREDITY

#### Page 189—Process Skill 2: Interpreting the Results of an Experiment

1. (3) 2. (3) 3. (1) 4. (4)

#### Review Questions Pages 189–190

23. (2) 24. (2) 25. (2)  
26. Key:

Y—gene for yellow

y—gene for green

	Y	y
Y	YY	Yy
y	Yy	yy

27. None of them (0%) would be green.  
28. One parent is pure yellow, and the other pure green.  
29. A hybrid has two different genes for the same trait  
30. Red eyes are the dominant trait. The capital letter represents the dominant trait  
31. A fly with Rr would have red eyes, because red (R) is dominant over white (r).

32. Key:

R—gene for red eyes

r—gene for white eyes

	R	r
R	RR	Rr
r	Rr	rr

33. 75 % would have red eyes

**Page 191—Process Skill 3: Interpreting a Diagram**

1. (4) 2. (3) 3. (2)

4. Individual 6 has free earlobes, but one of his children has attached earlobes, so he must be hybrid for the trait.

5. Key:

F—free earlobes

f—attached earlobes

	F	f
F	Ff	Ff
f	Ff	ff

The probability is 50 %

## EVOLUTION

### Review Questions Page 193

#### Part I

34. (1) 35. (1) 36. (2) 37. (4) 38. (1)

#### Part II

39. The bacteria that have survived are resistant to the antibiotic.

40. Bacteria reproduce very quickly.

41. Mutations may have resulted in resistant bacteria.