

## Answers for Lesson 2-3, pp. 96–98 Exercises

---

1. Felicia will pass the music theory course.
2. Rashid must study hard.
3. Line  $\ell$  and line  $m$  do not intersect.
4. It is not safe for Marla to be out in the open.
5. Figure  $ABCD$  has two pairs of parallel sides.
6. not possible
7. Points  $X$ ,  $Y$ , and  $Z$  are collinear.
8. not possible
9. Nadine Muzerall attended the University of Minnesota.
10. If an animal is a red wolf, then it is endangered.
11. If two planes are not parallel, then they intersect in a line.
12. If you read a good book, then your time is well spent.
13. If you are studying botany, then you are studying a science.
- 14–15. Answers may vary. Samples are given.**
14. If an Alaskan mountain is over 20,300 ft high, then it is the highest in the United States. Alaska's Mt. McKinley is the highest in the United States.
15. If you live in Lubbock, then you live in the 28th state to enter the Union. Levon lives in the 28th state to enter the Union.
16. Must be true; by (E) and (A), it is breakfast time. Then by (D), Julio drinks juice.
17. Must be true; by (E) and (A), it is breakfast time. Then by (C), Curtis drinks water.
18. May be true; by (E) and (A), it is breakfast time. We don't know what Kira drinks at breakfast time.

**Answers for Lesson 2-3, pp. 96–98 Exercises (cont.)**

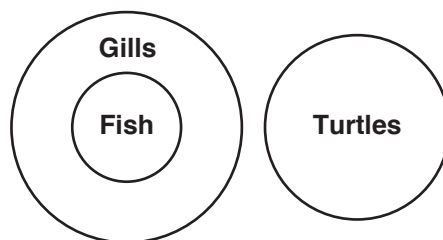
---

- 19. Is not true; by (E) and (A), it is breakfast time. By (C), Curtis drinks water and nothing else.
- 20. May be true; by (E), Maria drinks juice. We don't know if she also drinks water.
- 21. Is not true; by (A) and (E), it is breakfast time. By (D), Julio drinks juice and nothing else.
- 22. If something is a national park, then it is interesting; Mammoth Cave is interesting.
- 23. If you are in Key West, Florida, then the temperature is always above 32°F; not possible.
- 24. If you are a high school student, then you like music; not possible.
- 25. If a figure is a square, then it is a rectangle; *ABCD* is a rectangle.
- 26. Answers may vary. Sample: If a student wears a hat to school, then the student must take it off indoors. Amy wears a hat to school. Then Amy must take off the hat indoors.
- 27. No; red cars can never park.
- 28. No; guys with beards cannot park on Monday.
- 29. yes
- 30. No; there is no parking Tuesday from 6:49 A.M. to 9:11 A.M.

31. yes

32. Aisha and Ramon

33. a.



b. Turtles are not in the circle of animals with gills, so a turtle is not a fish.