of an earthquake in a given location by using a scale that describes the amount of damage caused and the degree to which people felt the earthquake.

14. Answers may vary. Sample answer: I would draw a circle around each station. The center of each circle would be the station. The radius of each would be the distance from the epicenter to the station. The epicenter would be the spot where the three circles intersect.
15. Answers may vary. Sample answer: The S waves generated by an earthquake would be much stronger than those from the explosion.
16. Answers may vary. Sample answer: I can see no remaining effects of the earthquake in the first location. Any damage would be too small or would be repaired. In the second location, many buildings are in shambles. Many underground pipes burst and there is fire damage. The damage from this quake is both great and widespread.
17. Answers may vary. Sample answer: Part I (Before the Shaking): I will make sure my room is safe by moving the fish tank from the top of my bookshelf to the bottom. Next I'll find the safest places in every room of the house. Last I'd make sure that all my family knew exactly where to meet after an earthquake so we could each know the others are safe. Part II (When the Shaking Starts): I would take cover under the oak desk in the den. Part III (After the Shaking Stops): I would check around my house to make sure it was safe and clean up broken glass and tell my parents if I saw any downed power lines.
18. a.seismic waves
    b.focus
    c.epicenter
    d.body waves
    e.surface waves
    f.P waves
    g.waves

Chapter Test C

1. C
2. B
3. C
4. C
5. A
6. C
7. C
8. C
9. B
10. C
11. B
12. A
13. C
14. B
15. D
16. C
17. A
18. seismic waves
19. elastic deformation
20. base isolator
21. mass damper
22. P waves
23. body waves
24. S waves
25. surface waves

Standardized Test Preparation

READING

Passage 1

1. B
2. H
3. D

Passage 2

1. C
2. G
3. D

INTERPRETING GRAPHICS

1. A
2. H
3. B

MATH

1. B
2. H
3. D
4. H
5. C