Unit 11 Test
Land Measurement and Descriptions

Name _____ Date _____ Hour _____

Multiple Choice
Choose the answer that best completes each statement or question.

_____ 1. When streams or rivers form boundaries, it is often difficult to calculate area. To determine the area of land, what shape is used?

A. triangle
B. trapezoid
C. square
D. rectangle

_____ 2. What method uses a map overlay and a scaled grid to find the area of land?

A. simple figures
B. digitizer
C. GPS coordinates
D. coordinate squares

_____ 3. How many feet are in one mile?

A. 320
B. 1,760
C. 5,280
D. 9,243

_____ 4. How many squared feet are in 3 acres?

A. 600
B. 14,520
C. 130,680
D. 392,040

_____ 5. If you own one hectare of land, how much land in acres do you own?

A. 2.471
B. 4.086
C. 10.239
D. 20.482

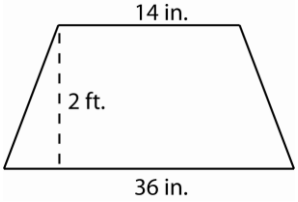
_____ 6. Length x width is the formula for the area of a _____.

A. rectangle
B. trapezoid
C. circle
D. triangle

_____ 7. A piece of land is in the shape of a square and has a length of 90 feet. What is the area of the land?

A. 45 ft.^{2}
B. 180 ft.^{2}
C. 8,100 ft.^{2}
D. 9,000 ft.^{2}

_____ 8. Find the area in squared feet for the shape below.



A. 0.04 ft.^{2}
B. 25 ft.^{2}
C. 50 ft.^{2}
D. 100 ft.^{2}

_____ 9. In order to calculate area, what has to be the same?

A. height and length
B. width and diameter
C. the units of measurement
D. all of the above

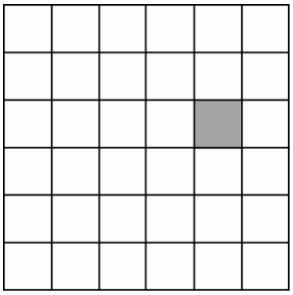
_____ 10. How many principle meridians are there in the U.S.?

A. 19
B. 34
C. 50
D. 100

_____ 11. Principle meridians and base lines cross at the _____.

A. center point
B. apex point
C. turning point
D. initial point

____ 12. Which section number is shaded in gray?



A. 10
B. 14
C. 17
D. 27

____ 13. How many acres are in one section of land?

A. 40
B. 180
C. 260
D. 640

____ 14. What does GPS stand for?

A. Geospatial Program Satellites
B. Global Positioning System
C. Global Program Satellites
D. Geospatial Positioning System

____ 15. Which is **not** needed to determine the distance of a satellite from the earth?

A. angle
B. distance
C. time
D. speed

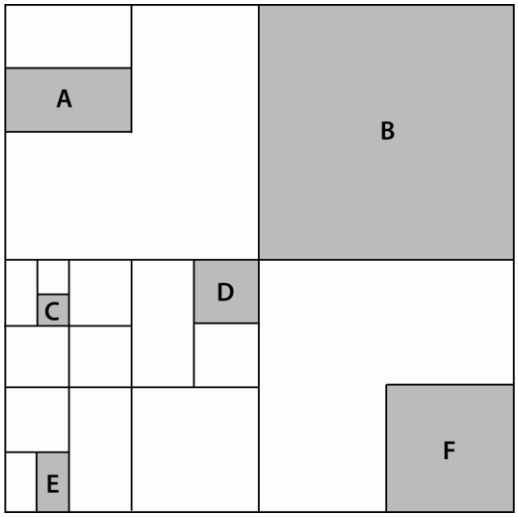
____ 16. After GPS data is gathered, what typed of software collects and stores it usable for us?

A. Microsoft software
B. GIS software
C. Signal software
D. GRW software

_____ 17. What does precision agriculture provide for farmers?

A. crop monitoring
B. yield data
C. pesticide application information
D. all of the above

Matching
Match each land description with its correctly shaded area.



_____ 18. NE ¼ , NE ¼ , SW ¼

_____ 19. NE ¼

_____ 20. SE ¼ , NW ¼ , NW ¼ , SW ¼

_____ 21. SE ¼ , SE ¼

_____ 22. E ½ , SW ¼ , SW ¼ , SW ¼

_____ 23. S ½ , NW ¼ , NW ¼

True or False
Indicate if each statement is true or false.

_____ 24. Pacing is the only method to finding horizontal distance.

_____ 25. One acre is equal to a square chain.

_____ 26. Land area can only be calculated on square or rectangular plots.

_____ 27. A legal land description is used to locate property boundaries.

_____ 28. A quadrangle is 4 miles square.

_____ 29. Signal from at least two satellites must be obtained to determine locations on the earth.

_____ 30. Satellite signals are obtained through GIS and used by GPS software to create maps.