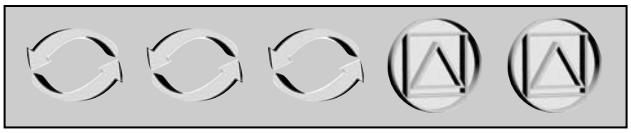
SECTION QUIZ 3-1



Remember:
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.2 points.

Problems involving π will require a scientific calculator.

Work the following problems. Show your work and write your answers on the blanks. Ask your teacher for the Mathematics Chart (located in the Teacher's Resource Kit) to determine the conversion factors.

1. In the 1936 Olympics held in "*Nazi*" Germany, Black athlete Jesse Owens won four gold medals. This fact greatly upset Adolf Hitler, the dictator of "*Nazi*" Germany. One of the gold medals that Mr. Owens won was for the long jump. Jesse's personal best jump was 26 feet, 8.25 inches. Calculate how many yards his best jump contained.

_____

2. A farmer wanted to build a barbed-wire fence around his property. After driving around the perimeter of the property, the farmer determined that the fence would need to be 2.5 miles long. Calculate how long the fence would be in feet.

_____

(a) 13,000 ft (b) 13,200 ft (c) 13,500 ft (d) 10,560 ft (e) 4,400 ft

3. The farmer in #2 built another fence, 1.5 miles long, around a near-by pasture. Calculate the distance in yards. _____

4. In the 1936 Olympics, Jesse Owens also won a gold medal in the 100 m run. Calculate how many centimeters Jesse ran. _____

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SECTION QUIZ 3-1

5. Another gold medal won by Jesse Owens was for the 200 m run. Calculate how many kilometers Mr. Owens ran. _____

6. 2 gallon = _____ quarts

7. 3 quart = _____ pints

8. 5 pint = _____ cups

9. If Professor K's automobile gas tank holds 21.5 gallons of gasoline, how many ounces of gasoline will the gas tank hold? _____

10. If "a pint is a pound the world around," how many ounces are in two quarts? _____

11. Professor K had 20 quarts of milk in his refrigerator. How many gallons of milk does Professor K have? _____

(a) 5 gallons (b) 4 gallons (c) 40 gallons (d) 10 gallons (e) 25 gallons

12. A bottle of orange juice contains 455 milliliters of juice. Calculate how many liters the bottle of juice will hold. _____

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13. In the 2000 Olympics, Hossein Rezazadeh of Iran won a gold medal in a lift called the "snatch" by lifting 468.75 pounds. Calculate the difference between Hossein's lift and a lift of 450.00 pounds. Express your answer in ounces.

_____

14. In the 2000 Olympics, Hossein Rezazadeh lifted 573 pounds in the "clean and jerk." If Hossein Rezazadeh lifted another 569 pounds, calculate what fraction of a ton Hossein lifted altogether. _____

15. 529.25 pounds = _____ kilograms

16. 5 gram = _____ milligrams

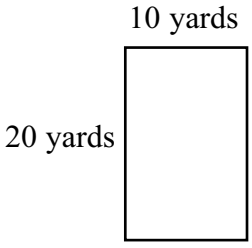
17. In the 2000 Olympics, Rezazadeh set a world record in the "snatch" by lifting 212.5 kg. Calculate how many milligrams Rezazadeh lifted. _____

18. In the 2000 Olympics, Shane Hamman lifted 195 kg in the "snatch." If Mr. Hamman lifted 191 kg in another lift, calculate how many grams Mr. Hamman lifted in the two lifts combined. _____

(a) 386 g (b) 3,860 g (c) 38,600 g (d) 386,000 g (e) none of these

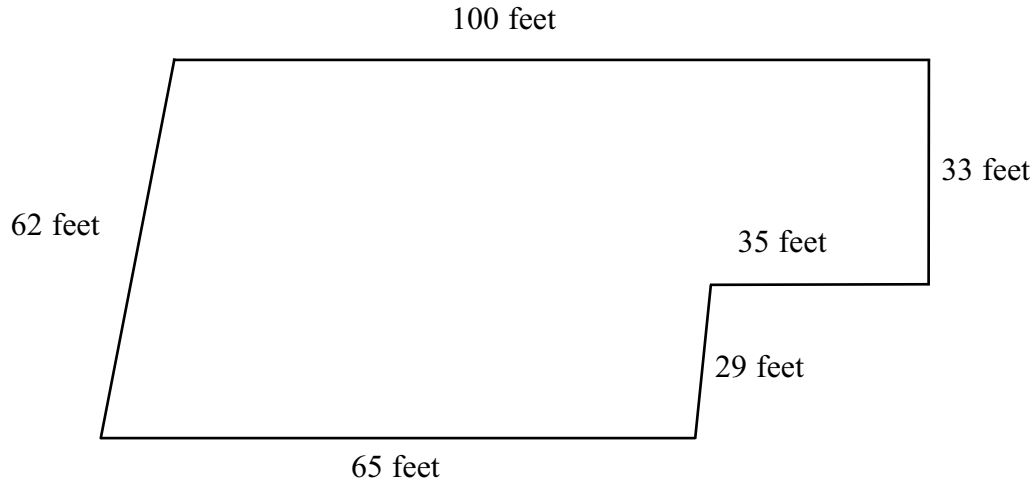
19. Professor K built a fence around his vegetable garden to keep out the rabbits. Look at the diagram of his garden and calculate how many yards of fence Professor K had to build.

_____



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20. After building a fence around his garden, Professor K decided to build a fence around his entire yard to keep the neighborhood youngsters from taking a shortcut across his lawn. Look at the diagram of Professor K's yard and calculate the amount of fence Professor K had to purchase. _____



21. Calculate the circumference of a circle with a radius of 3. _____
(Use a calculator to determine the answer.)

22. Calculate the circumference of a circle with a radius of 4. _____
(Use a calculator to determine the answer.)
(a) 12.56 units (b) 18.84 units (c) 25.13 units (d) 31.4 units

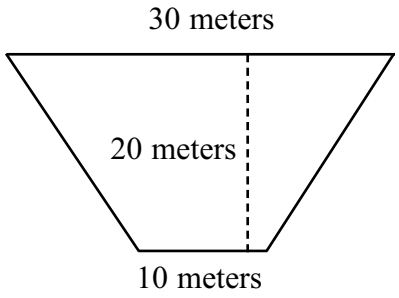
23. Mrs. K wanted new carpet for her living room. Calculate the amount of carpet in square feet Professor K will have to purchase if the living room is 25 feet long and 25 feet wide. _____

24. Professor K's garden is 10 yards wide and 20 yards long. He needed to know the area of the garden so that he could purchase the right quantity of fertilizer. Professor K calculated the area of his garden to be _____.

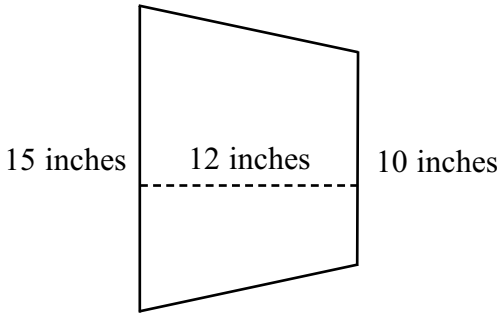
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25. The formula for the area of a trapezoid is: A = _____.

26. Calculate the area of the trapezoid shown below. _____



27. Calculate the area of the trapezoid shown below. _____



28. Calculate the area of a triangle with a base of length 10 cm and a height of 15 cm.

_____

29. Calculate the area of a triangle with a base of length 20 feet and an altitude (height) of 5 feet. _____.

30. A child's alphabet block is in the shape of a cube. The length of the edge of the block is 3 inches. Calculate the surface area of the block. _____

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31. A metal file box is in the shape of a cube. Calculate the amount of metal required to construct the file box if the edge of the box measures 14 inches.

_____

32. The diameter of a globe in the geography classroom is 14 inches. Calculate the surface area of the globe. _____

33. The radius of a glass sphere used as a table decoration is 10 cm. Calculate the surface area of the glass sphere. _____

34. The formula for the lateral surface area of a cylinder is _____.

35. Mrs. K wanted to wrap a coffee can in paper. Mrs. K did not cover the ends of the coffee can. Calculate the lateral surface area of the coffee can if the radius of the can is 4 inches and the height is 8 inches. _____

36. The formula for the total surface area of a cylinder is _____.

37. Mrs. K changed her mind and decided to cover the lateral surface area and one end of the coffee can in #35. Calculate the total surface area of the can covered with paper.

_____

38. The formula for the lateral surface area of a cone is: A_{ls} = _____.

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39. Calculate the total surface area of a wooden block in the shape of a cone if the radius of the base is 2 inches and the lateral height is 3 inches. _____

(a) 314.2 sq in. (b) 31.42 sq in. (c) 3,142 sq in. (d) 3.14 sq in.

40. Calculate the lateral surface area of a cone of radius 12 and lateral height of 10.

_____

Match the following Life Principles.

41. _____ *"You cannot escape the responsibility of tomorrow*

42. _____ *"If you kick a stone in anger,*

43. _____ "*All human wisdom is summed up in two words:*

44. _____ *"Don't let yesterday*

45. _____ *"What we are we repeatedly do.*

(a) *wait and hope."*

(b) *Excellence then, is not an act, but a habit."*

(c) *by evading it today."*

(d) *you'll hurt your own foot."*

(e) *use up too much of today."*

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