One-half point per answer

Fill in the following blanks with exact values in decimal form.

1. 144 in. =_____ yd   2. 300 ft. =_____ in

3. 400 m =_____ km   4. 3.5 L =_____ mL

5. 4.5 cm =_____ mm   6. 5.1 mm^2 =_____ cm^2

One point per problem

7. Arrange the following from smallest to largest: 4 km, 100 cm , 50 m, 200 mm.

8. Arrange the following from smallest to largest: 1.5 quarts, $\frac{1}{2}$ gallon, $4\frac{1}{4}$ cups, 5 pints.

9. What is the exact circumference of a circle whose area is 36π square centimeters?

10. A rectangular cabinet has the dimensions 12" by 20" by 5". What is the volume of the cabinet to the nearest tenth of a cubic foot?

11. Give the length of the side of a square that has the same perimeter as a rectangle that is 66 cm by 32 cm.

12. A circular flower bed is 6 m in diameter and has a circular sidewalk around it 1 m wide. Find the exact area of the sidewalk in square meters.

13. A store has wrapping paper on sale. Package A is 3 rolls of 4" by 5" for $5.00. Package B is 5 rolls of 4" by 3" for $7.00. Which is the better buy, A or B?

14. A container will hold 2.5 gallons, how many quarts will it hold?

15. An aircraft company starts with a square piece of metal measuring 10 in. by 10 in. and wants to remove a strip x in. wide from all sides to form another square with an area of 64 square inches. Find x.

Two points per problem

16. A birthday cake has been baked in a 7" by 7" by 2" pan. Frosting covers the top and sides of the cake. What is the area covered by the frosting?

17. A map is drawn to scale such that $\frac{2}{5}$ in. represents 60 ft. If the shortest route from your house to the school measures 15 in., how many miles, to the nearest hundredth of a mile, is it from your house to the school?

18. A jack is 5 m and a jill is 1 hour. Convert 15 cm per second to its equivalent in jacks per 1 jill.

19. An aquarium is a rectangular prism 60 cm long, 40 cm wide, and 35 cm deep. What is the capacity of the aquarium in liters?

JR. HIGH MATH LEAGUE   **GROUP 7-I TEST A**
Measurement   **Spring 2001**
ANSWER SHEET

One-half point per answer

1. _____ yd   2. _____ in

3. _____ km   4. _____ mL

5. _____ mm   6. _____ cm^2

One point per problem

7. _____, _____, _____, _____

8. _____, _____, _____, _____

9. _____ cm

10. _____ cubic feet

11. side = _____ cm

12. _____ square meters

13. _____ is the better buy

14. _____ quarts

15. x = _____

Two points per problem

16. _____ square inches

17. _____ miles

18. _____ jacks per 1 jill

19. _____ L