

Please read and follow these directions: Show your work in the space provided. List your answers in the answer column. For word problems, write your answer in a complete sentence in the space provided.

1. Solve:  $\frac{135}{5.4} = \frac{m}{5}$  1. \_\_\_\_\_

2. An 8-lb turkey contains 20 servings of meat. What is the ratio in servings per pound? 2. \_\_\_\_\_

3. A car travels 60 miles per hour. What is the rate in km per hour? 3. \_\_\_\_\_

4. Which brand has the lower unit price (show the unit prices): 4. \_\_\_\_\_  
 Brand A: \$2.69 for 6 bars  
 Brand B: \$0.85 for 2 bars

5. On a map, 1 inch represents 15.6 miles. If two cities are 2.3 inches apart on the map, how far are they actually apart?

5. \_\_\_\_\_

6. In a chemical solution, the ratio of saline to water is 2 to 5. If there are 210 liters of saline, how much water is there?

6. \_\_\_\_\_

7. Find percent notation for : 0.427 7. \_\_\_\_\_

8. Find the fractional notation for  $7\frac{5}{8}\%$  8. \_\_\_\_\_

9. What percent of 75 is 12? 9. \_\_\_\_\_

10. 36% of a number is 162. What is the number? 10. \_\_\_\_\_

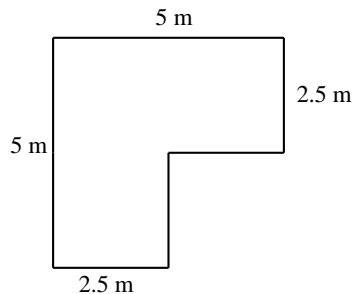
11. The marked price of a shirt is \$38 and is on sale at 12% off.  
 11a. What is the discount? 11a. \_\_\_\_\_

11b. What is the sale price? 11b. \_\_\_\_\_

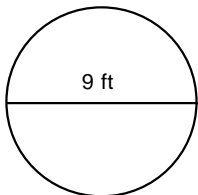
12. Convert 0.453 km to cm. 12. \_\_\_\_\_

13. Convert 621 inches to yards 13. \_\_\_\_\_

14. Find the perimeter of this figure: 14. \_\_\_\_\_

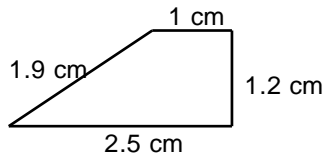


15. Find the area of this circle if its diameter is as shown. 15. \_\_\_\_\_



16. Find the perimeter of the figure below.

16. \_\_\_\_\_



17: . The following prices per pound of Vermont cheddar cheese were found at five supermarkets.

\$5.89, \$5.49, \$4.89, \$5.79, \$4.98

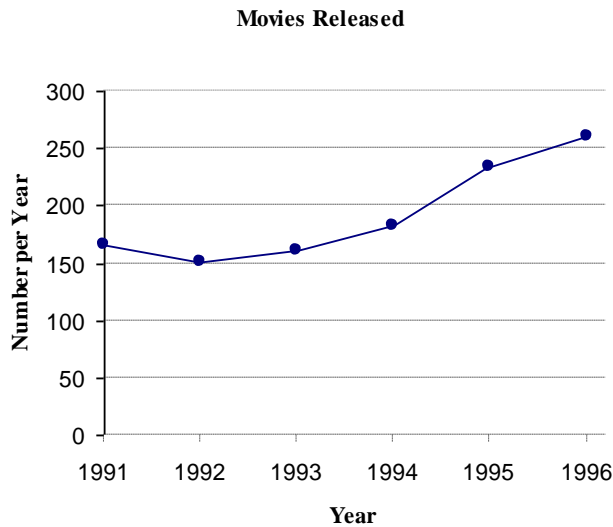
What was the median price per pound?

17. \_\_\_\_\_

18. To get an A in math, a student must score an average of 90 on five tests. Scores on the first four exams for a particular student were 91, 95, 82, and 87. What is the lowest score that this student can get on the last test and still receive an A?

18. \_\_\_\_\_

Problems 19 and 20: The following graph shows the number of movie releases over a period of years. Use the graph to answer the following questions.



19. In what year was the smallest number of movies released?

19. \_\_\_\_\_

20. Between what two consecutive years did the number of movies released decrease?

20. \_\_\_\_\_