Give after Lesson 75

Also take Test N (+ − × ÷ Mixed Numbers)

1. It was 96 kilometers from Perry to Medford. David raced to Medford and idled back. If the round trip took 8 hours, what was his average speed in kilometers per hour?

2. The ratio of dogs to cats in the neighborhood was 3 to 7. If there were 210 dogs and cats in the neighborhood, how many cats were there?

3. Using a tape measure, Becky Jo found that the circumference of the great redwood was 900 cm. She estimated that its diameter was 300 cm. Was her estimate a little too large or a little too small? Why?

4. Pistachios were priced at 3 pounds for $6.99.
   (a) What was the price per pound?
   (b) How much would 10 pounds of pistachios cost?

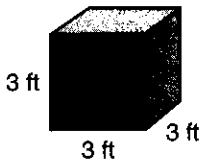
5. If the product of six tenths and three tenths is subtracted from the sum of two tenths and four tenths, what is the difference?

6. Read the following statement. Then answer the questions that follow.

   Three fifths of the baker's 60 cookies were chocolate cookies.

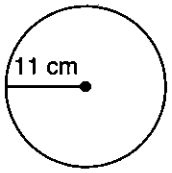
   (a) How many of the baker's cookies were chocolate?
   (b) What percent of the baker's cookies were not chocolate cookies?

7. (a) A cube has how many vertices?
   (b) What is the volume of this cube?



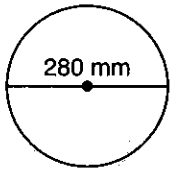
8. Find the circumference of each of these circles.

(a)



Leave π as π.

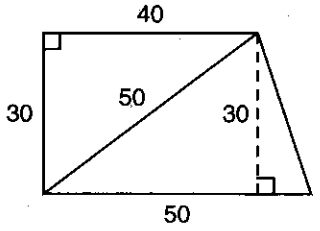
(b)



Use $\frac{22}{7}$ for π.

9. Write each of these numbers in the proper form of scientific notation: (a) 11×10^{-7} (b) 11×10^{7}

Refer to the figure to answer questions 10 and 11. Dimensions are in millimeters.



10. What is the area of the right triangle?

11. What is the area of the isosceles triangle?

12. Evaluate: $ab - (a - b)$ if $a = 0.5$ and $b = 0.4$

13. What number is 25% of 1200?

14. Use a unit multiplier to convert 8000 g to kg.

15. Complete the table.

FRACTION	DECIMAL	PERCENT
$\frac{1}{8}$	(a)	(b)
(c)	(d)	18%

Solve:

16. $q + 36 = 42.6$

17. $5n = 32$

Simplify:

18. $8.6 \times 5\frac{1}{4}$ (decimal answer)

19. $(-6) + (-3) - (-1) - (+4)$

20. $1\frac{1}{3} \div \left(3\frac{1}{2} \cdot 2\right)$