Test, Form 3A

Estimate each product.
1. \( \frac{1}{9} \times 39 \)
2. \( \frac{10}{11} \times \frac{3}{5} \)
3. The average population of a certain city is \( 4 \frac{7}{8} \) million people. Suppose each person produces an average of \( 2 \frac{2}{9} \) pounds of garbage each day. About how much garbage would be produced each day?

Multiply. Write in simplest form.
4. \( 8 \times \frac{4}{9} \)
5. \( \frac{3}{16} \times \frac{5}{12} \)
6. \( \frac{3}{7} \times 2 \frac{5}{8} \)
7. A container holds \( \frac{1}{4} \) gallon of oil. Jonathan is changing the oil on his car and needs 5 containers. How many gallons of oil does Jonathan need?
8. Renee spent \( \frac{1}{8} \) of the day landscaping around the house. She spent \( \frac{1}{2} \) of that time pulling weeds. What fraction of the day did Renee spend pulling weeds?
9. A quilt measures \( 4 \frac{2}{3} \) feet by 6 feet. What is the area of the quilt?
10. A recipe make \( 5 \frac{1}{2} \) dozen cookies. Marquis needs to make \( 3 \frac{3}{4} \) times this amount. How many dozens of cookies will he make?
11. Use the draw a diagram strategy to solve. Elvin read \( \frac{3}{7} \) of the pages in his book. He has 56 pages left to read. How many pages has he read already?
Test, Form 3A (continued)

Divide. Write in simplest form.

12. \( \frac{5}{7} \div \frac{1}{2} \)

13. \( \frac{1}{2} \div \frac{5}{9} \)

14. \( \frac{2}{3} \div \frac{5}{7} \)

15. \( \frac{7}{9} \div \frac{4}{9} \)

Solve each problem. Write in simplest form.

16. The pilot on the flight that Katelyn was on announced that they were flying at 29,040 feet. Was Katelyn over 6 miles above the ground? Explain.

17. Spencer spent 4 hours doing chores over the weekend. If he spent \( \frac{2}{3} \) of an hour for each chore, how many chores did he do?

18. Duane bought 68 \( \frac{3}{4} \) inches of chain for an art project. How many 15-inch chains can he make from it?

19. A cooler contains 13 \( \frac{1}{2} \) cups of fruit juice. How many pints of fruit juice does the cooler contain?

20. Mrs. Franks has 45 pounds of grain to divide among the farm animals. If each animal receives \( \frac{3}{4} \) pound of grain for each feeding, how many times can Mrs. Franks feed her animals?