Lesson 6 Homework Practice
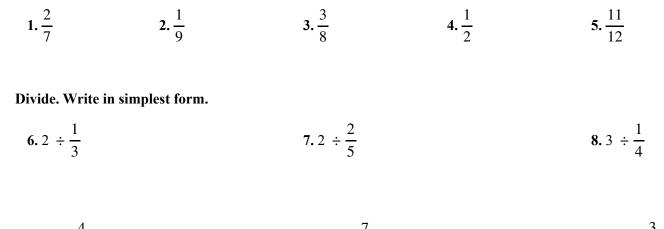
Divide Whole Numbers by Fractions

Find the reciprocal of each number.

1. $\dfrac{2}{7}$ **2.** $\dfrac{1}{9}$ **3.** $\dfrac{3}{8}$ **4.** $\dfrac{1}{2}$ **5.** $\dfrac{11}{12}$

Divide. Write in simplest form.

6. $2 \div \dfrac{1}{3}$ **7.** $2 \div \dfrac{2}{5}$ **8.** $3 \div \dfrac{1}{4}$

9. $10 \div \dfrac{4}{5}$ **10.** $14 \div \dfrac{7}{9}$ **11.** $13 \div \dfrac{3}{5}$

12. **PARTY** For a party, 20 sandwiches are being made. If each sandwich is cut into thirds, how many sandwich pieces are there?

13. WIRE Carmen cuts a 60-inch-long wire into pieces that are $\dfrac{3}{4}$ inch long. How many pieces does she have?

Lesson 7 Homework Practice

Divide Fractions

Divide. Write in simplest form.

14. $\dfrac{2}{7} \div \dfrac{1}{7}$ **15.** $\dfrac{1}{9} \div \dfrac{2}{3}$ **16.** $\dfrac{3}{8} \div \dfrac{1}{2}$

17. $\dfrac{3}{4} \div \dfrac{1}{10}$ **18.** $\dfrac{2}{5} \div \dfrac{1}{4}$ **19.** $\dfrac{1}{8} \div \dfrac{2}{5}$

20. $\dfrac{4}{5} \div \dfrac{7}{10}$

21. $\dfrac{7}{9} \div 14$

22. $\dfrac{5}{7} \div \dfrac{4}{9}$

23. **INSECTS** An average ant is $\dfrac{1}{4}$ inch long. An average aphid is $\dfrac{3}{32}$ inch long. How many times longer is an average ant than an average aphid?

24. **LAND** A field has an area of $\dfrac{9}{20}$ square miles. Find the width of the field if the length is $\dfrac{9}{10}$ mile long.

Lesson 8 Homework Practice

Divide Mixed Numbers

Divide. Write in simplest form.

25. $2 \div 3\dfrac{2}{3}$

26. $10 \div 1\dfrac{1}{4}$

27. $4\dfrac{3}{4} \div \dfrac{7}{8}$

28. $7\dfrac{1}{2} \div 1\dfrac{1}{4}$

29. $3\dfrac{3}{8} \div 2\dfrac{1}{4}$

30. $14\dfrac{15}{16} \div \dfrac{7}{8}$

31. HURRICANES Suppose a hurricane traveled 130 miles from a point in the Atlantic Ocean to the Florida coastline in $6\dfrac{1}{2}$ hours. How many miles per hour did the hurricane travel?

32. BAKING A bag contains $22\dfrac{1}{2}$ cups of flour. A recipe for pancakes uses $1\dfrac{1}{4}$ cups of flour. How many batches of pancakes can be made with one bag of flour?