

1. The \_\_\_\_\_ of  $\frac{5}{12}$  is  $\frac{12}{5}$ .

7. Determine whether each quotient is positive or negative. *You do not have to find the answer.*

a.  $-\frac{1}{4} \div \frac{3}{4}$

b.  $-\frac{7}{8} \div \left(-\frac{21}{32}\right)$

9. a. Multiply  $\frac{4}{5}$  and its reciprocal. What is the result?

b. Multiply  $-\frac{3}{5}$  and its reciprocal. What is the result?

1. Find the reciprocal of each number.

a.  $\frac{11}{8}$

b.  $-\frac{1}{14}$

c.  $-63$

In 17 - 75 odd, evaluate each expression by performing the indicated operation.

17.  $\frac{1}{8} \div \frac{2}{3}$

27.  $150 \div \frac{15}{32}$

19.  $\frac{2}{23} \div \frac{1}{7}$

29.  $\frac{1}{8} \div \left(-\frac{1}{32}\right)$

21.  $\frac{25}{32} \div \frac{5}{28}$

31.  $\frac{2}{5} \div \left(-\frac{4}{35}\right)$

23.  $\frac{27}{32} \div \frac{9}{8}$

33.  $-\frac{28}{55} \div (-7)$

25.  $50 \div \frac{10}{9}$

35.  $-\frac{33}{23} \div (-11)$

37.  $120 \div \frac{12}{5}$

57.  $\frac{3}{16} \div \frac{1}{9}$

39.  $\frac{1}{2} \div \frac{3}{5}$

59.  $-\frac{1}{8} \div 8$

41.  $(-\frac{7}{4}) \div (-\frac{21}{8})$

61.  $\frac{7}{6} \cdot \frac{9}{49}$

43.  $\frac{4}{5} \div \frac{4}{5}$

63.  $-\frac{4}{5} \div (-\frac{3}{2})$

45. Divide  $-\frac{15}{32}$  by  $\frac{3}{4}$

65.  $\frac{13}{16} \div 2$

47.  $3 \div \frac{1}{12}$

67.  $(-\frac{11}{21}) (-\frac{14}{33})$

49.  $-\frac{4}{5} \div (-6)$

69.  $-\frac{15}{32} \div \frac{5}{64}$

51.  $\frac{15}{16} \div 180$

71.  $11 \cdot \frac{1}{6}$

53.  $-\frac{9}{10} \div \frac{4}{15}$

73.  $\frac{3}{4} \cdot \frac{5}{7}$

55.  $\frac{9}{10} \div (-\frac{3}{25})$

75.  $\frac{25}{7} \div (-\frac{30}{21})$

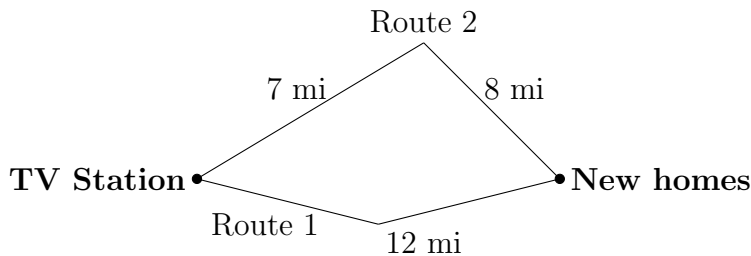
77. PATIO FURNITURE A production process applies several layers of a clear plastic coat to outdoor furniture to help protect it from the weather. If each protective coat is  $\frac{3}{23}$ -inch thick, how many applications will be needed to build up  $\frac{3}{8}$  inch of clear finish?

79. COOKING A recipe calls for  $\frac{3}{4}$  cup of flour, and the only measuring container you have holds  $\frac{1}{8}$  cup. How many  $\frac{1}{8}$  cups of flour would you need to add to follow the recipe?

81. UNDERGROUND CABLES Refer to the illustration and table below.

- a. How many days will it take to install underground TV cable from the broadcasting station to the new homes using route 1?
- b. How long is route 2?
- c. How many days will it take to install the cable using route 2?
- d. Which route will require the fewer number of days to install the cable?

Proposal	Amount of cable installed per day	Comments
Route 1	$\frac{2}{5}$ of a mile	Ground very rocky
Route 2	$\frac{3}{5}$ of a mile	Longer than Route 1



85. FORESTRY A set of forestry maps divides the 6,284 acres of an old-growth forest into  $\frac{4}{5}$ -acre sections. How many sections do the maps contain?