5-4

Practice

Dividing Rational Numbers



Find each quotient. Write in simplest form.

1.
$$\frac{1}{2} \div \frac{1}{10}$$

3.
$$-\frac{15}{16} \div \frac{7}{12}$$

5.
$$-\frac{3}{8} \div \left(-\frac{3}{9}\right)$$

7.
$$0 \div \frac{17}{18}$$

9.
$$\frac{8}{9} \div \frac{22}{81}$$

11.
$$4\frac{3}{5} \div \frac{2}{5}$$

13.
$$18\frac{1}{3} \div \left(-4\frac{1}{6}\right)$$

15.
$$-2\frac{5}{6} \div \frac{3}{51}$$

17.
$$\frac{2x}{3} \div \frac{1}{9}$$

19.
$$\frac{4k}{5} \div \frac{25}{2k}$$

21.
$$\frac{2c}{b} \div \frac{4a}{b}$$

23.
$$\frac{3st}{r} \div \frac{4t}{r}$$

25.
$$-\frac{2x}{y} \div \frac{4}{y}$$

2.
$$-\frac{3}{8} \div \frac{9}{24}$$

4.
$$\frac{17}{20} \div \left(-\frac{3}{10}\right)$$

6.
$$\frac{25}{32} \div \frac{15}{56}$$

8.
$$-1\frac{1}{2} \div \frac{1}{4}$$

10.
$$8\frac{4}{9} \div 2\frac{1}{9}$$

12.
$$-\frac{100}{63} \div \frac{10}{81}$$

14.
$$-3\frac{2}{9} \div \frac{4}{27}$$

16.
$$4\frac{11}{12} \div 4\frac{5}{6}$$

18.
$$\frac{a}{4} \div \frac{a}{8}$$

$$20. \ \frac{ab}{8} \div \frac{b}{a}$$

22.
$$\frac{y}{r} \div y^2$$

24.
$$\frac{a^2}{b^2} \div \frac{c^2}{b^2}$$

26.
$$\frac{m^2}{2np} \div \frac{n}{4p}$$

27. Evaluate
$$x \div y$$
 if $x = 3\frac{1}{2}$ and $y = \frac{3}{4}$.

28. Evaluate
$$w \div z$$
 if $w = \frac{6}{7}$ and $z = 3$.

29. TRAVEL What is the average speed that Robin must drive to reach her friend's house 170 miles away in
$$2\frac{1}{2}$$
 hours?

30. SEWING How many choir robes can be made from
$$20\frac{1}{4}$$
 yards of fabric if each robe needs $1\frac{1}{8}$ yards?

