

3. If the numerator of a fraction is less than its denominator, the fraction is called a _____ fraction. If the numerator of a fraction is greater than or equal to its denominator it is called an _____ fraction.

5. Two fractions are _____ if they represent the same number.

11. Classify each fraction as a proper fraction or an improper fraction.

a. $\frac{37}{24}$

c. $\frac{71}{100}$

b. $\frac{1}{3}$

d. $\frac{9}{9}$

17. Write the fraction $\frac{7}{-8}$ in two other ways.

33. Simplify, if possible.

a. $\frac{4}{1}$

b. $\frac{8}{8}$

c. $\frac{0}{12}$

d. $\frac{1}{0}$

In exercises 39, 41, 45, 49, 55, and 59, write each fraction as an equivalent fraction with the indicated denominator.

39. $\frac{4}{9}$, denominator 27

49. $\frac{5}{4}$, denominator 28

41. $\frac{5}{6}$, denominator 54

55. 6, denominator 8

45. $\frac{1}{2}$, denominator 30

59. 14, denominator 2

In exercises 65 - 96 odd, simplify each fraction if possible.

65. $\frac{6}{9}$

81. $\frac{60}{108}$

67. $\frac{16}{20}$

83. $\frac{180}{210}$

69. $\frac{5}{15}$

85. $\frac{306}{234}$

71. $\frac{2}{48}$

87. $\frac{15}{6}$

73. $\frac{36}{96}$

89. $\frac{420}{144}$

75. $\frac{16}{17}$

91. $-\frac{4}{68}$

77. $\frac{55}{62}$

93. $-\frac{90}{105}$

79. $\frac{50}{55}$

95. $-\frac{16}{26}$

101. DENTISTRY Refer to the dental chart on page 219 in the text.

a. How many teeth are shown on the chart?

b. What fraction of this set of teeth have fillings?

102. TIME CLOCKS For each clock shown in the text on page 219, what fraction of the hour has passed? Write your answers in simplified form. (Hint: There are 60 minutes in an hour.)

a.

c.

b.

d.

103. RULERS The illustration on page 219 in the text shows a ruler.

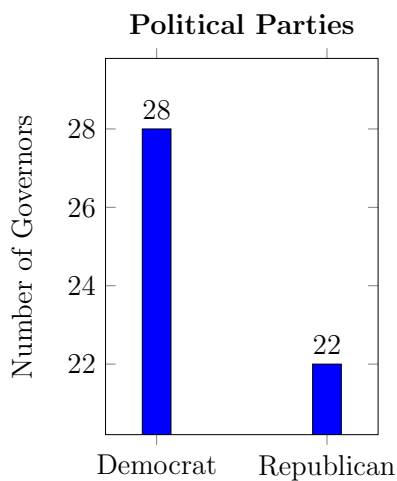
a. How many spaces are there between the numbers 0 and 1?

b. To what fraction is the arrow pointing? Write your answer in simplified form.

104. SINKHOLES The illustration shown on page 219 in the text shows a side view of a drop in the sidewalk near a sinkhole. Describe the movement of the sidewalk using a signed fraction.

105. POLITICAL PARTIES The graph shows the number of Democrat and Republican governors of the 50 states, as of February 1, 2009.

- a. How many Democrat governors are there? How many Republican governors are there?
- b. What fraction of the governors are democrats? Write your answer in simplified form.
- c. What fraction of the governors are Republicans? Write your answer in simplified form.



106. GAS TANKS Referring to the illustration on page 219 in the text, write fractions to describe the amount of gas left in the tank and the amount of gas that has been used.

107. SELLING CONDOS The model shown in the text on page 219 shows a new condominium development. The condos that have been sold are shaded.

- a. How many units are there in the development?
- b. What fraction of the units in the development have been sold? What fraction have not been sold? Write your answers in simplified form.