

**Chapter Seven Review****Section 7.1 Percents, Decimals, and Fractions**

1. 39%, 0.39,  $\frac{39}{100}$
2. 111%, 1.11,  $\frac{111}{100}$
3.  $100 - 39 = 61\%$
4.  $15\% = \frac{15}{100} = \frac{3 \cdot \cancel{5}}{20 \cdot \cancel{5}} = \frac{3}{20}$
5.  $120\% = \frac{120}{100} = \frac{6 \cdot \cancel{20}}{5 \cdot \cancel{20}} = \frac{6}{5}$
6.  $9\frac{1}{4}\% = \frac{37}{4}\% = \frac{37}{4} \cdot \frac{1}{100} = \frac{37}{4(100)} = \frac{37}{400}$
7.  $0.1\% = \frac{0.1}{100} = \frac{10(0.1)}{10(100)} = \frac{1}{1,000}$
8.  $27\% = 0.27$
9.  $8\% = 0.08$
10.  $155\% = 1.55$
11.  $1\frac{4}{5}\% = 1.8\% = 0.018$
12.  $0.83 = 83\%$
13.  $0.625 = 62.5\%$
14.  $0.051 = 5.1\%$
15.  $6 = 600\%$
16.  $\frac{1}{2} = 0.5 = 50\%$
17.  $\frac{4}{5} = 0.8 = 80\%$
18.  $\frac{7}{8} = 0.875 = 87.5\%$
19.  $\frac{1}{16} = 0.0625 = 6.25\%$
20.  $\frac{1}{3} = 0.\bar{3} = 33\frac{1}{3}\%$

21.  $\frac{5}{6} = 0.8\bar{3} = 83\frac{1}{3}\%$

22.  $\frac{5}{9} \approx 0.5556 \approx 55.56\%$

23.  $\frac{8}{3} \approx 2.6667 \approx 266.67\%$

24. BILL OF RIGHTS

27-10 leaves 17 amendments

$$\frac{17}{27} \approx 0.629 \approx 63\%$$

About 63% of the Amendments were adopted after the Bill of Rights.

25. From problem 7 of this review,

$$0.1\% = \frac{1}{1,000}$$

**Section 7.2 Solving Percent Problems**

26. amount: 15, base: 45, percent:  $33\frac{1}{3}\%$

27.  $x = 32\% \cdot 96$

28.  $x = 0.40 \cdot 500$   
 $x = 200$

29.  $0.16 \cdot x = 20$

$$\frac{0.16x}{0.16} = \frac{20}{0.16}$$
$$x = 125$$

