Write each fraction, mixed number, or decimal as a percent.

1. $\frac{2}{25}$　　2. $\frac{21}{50}$　　3. $\frac{7}{10}$　　4. $\frac{1}{5}$　　5. $\frac{5}{8}$

6. $\frac{9}{16}$　　7. 0.21　　8. 0.08　　9. 0.099　　10. 1.7

11. $0.15\frac{1}{5}$　　12. $\frac{7}{12}$　　13. $\frac{15}{32}$　　14. $1\frac{4}{15}$　　15. $2\frac{2}{7}$

Write each percent as a decimal.

16. 6%　　17. 49%　　18. 0.3%　　19. 587%　　20. $24\frac{1}{3}\%$

Write each percent as a fraction or mixed number in lowest terms.

21. 50%　　22. $\frac{3}{4}\%$　　23. 2.3%　　24. 475%　　25. 0.15%

26. Christina made 22 out of 25 shots in last week's basketball game. What percent of the shots Christina attempted did she make?

27. The Gray Company receives about 40 letters each day. Sixteen of these letters have postage stamps. The remainder of the letters have been passed through a postage meter. What percent of the letters received each day have postage stamps on them?
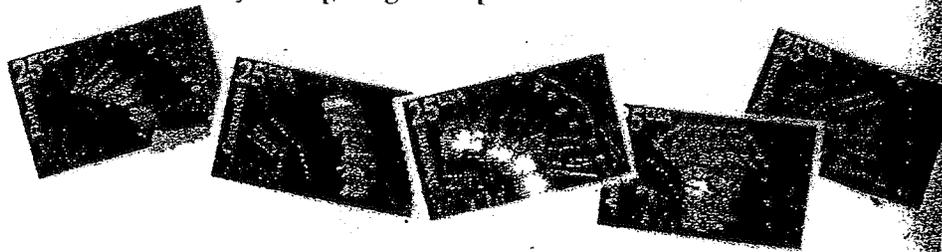
28. Steve got 15 out of 20 problems correct on a math test. What percent of the problems did he get wrong?

29. The Robins won 30 games and lost 20. What percent of the games they played did they win?

PATTERNS

30. Write each percent as a decimal.

    a. 200%   b. 20%   c. 2%

31. Use the results of Exercise 30 to find the first six decimals in the pattern.

200%	20%	2%	0.2%	0.02%	0.002%
?	?	?	?	?	?

32. Write each decimal as a percent.

    a. 9   b. 0.9   c. 0.09

33. Use the results of Exercise 32 to find the first six percents in the pattern.

9	0.9	0.09	0.009	0.0009	0.00009
__?__%	__?__%	__?__%	__?__%	__?__%	__?__%

THINKING SKILLS

Complete to find what percent the first number is of the second number.

34. $97; 100 \longrightarrow \dfrac{?}{100} = \underline{\ ?\ }\%$

35. $19; 19 \longrightarrow \dfrac{19}{?} = \underline{\ ?\ }\%$

36. $100; 200 \longrightarrow \dfrac{?}{200} = \underline{\ ?\ }\%$

37. $200; 100 \longrightarrow \dfrac{200}{?} = \underline{\ ?\ }\%$

38. Analyze your answers to Exercises 34–37. Create a plan for finding what percent one number is of another number.

SPIRAL REVIEW

39. Write 7.5% as a fraction and as a decimal.   *(Lesson 9-5)*

40. Find the GCF: 108 and 60   *(Lesson 7-2)*

41. Find the difference: $\dfrac{29}{37} - \dfrac{18}{37}$ *(Lesson 8-4)*

42. Use a protractor to draw an angle with measure 123°.   *(Lesson 6-2)*

Challenge

A photograph is reduced to four fifths of its original size. What percent of the reduced size is the original size?