6-1 Percents
Write each percent as a fraction in simplest form.

1. 7% $\frac{7}{100}$ 2. 52% $\frac{13}{25}$ 3. 4% $\frac{1}{25}$ 4. 16% $\frac{4}{25}$

5. 32% $\frac{8}{25}$ 6. 70% $\frac{7}{10}$ 7. 49% $\frac{49}{100}$ 8. 15% $\frac{3}{20}$

Write each percent as a decimal.

9. 14% $\underline{0.14}$ 10. 80% $\underline{0.8}$ 11. 63% $\underline{0.63}$ 12. 3% $\underline{0.03}$

6-2 Fractions, Decimals, and Percents
Write each decimal as a percent.

13. 0.33 $\underline{33\%}$ 14. 0.91 $\underline{91\%}$ 15. 0.2222 $\underline{22\%}$ 16. 0.03 $\underline{3\%}$

Write each fraction as a percent. Round to the nearest tenth of a percent, if necessary.

17. $\frac{11}{12}$ $\underline{91.7\%}$ 18. $\frac{23}{47}$ $\underline{49\%}$ 19. $\frac{1}{9}$ $\underline{11\%}$ 20. $\frac{17}{38}$ $\underline{45\%}$

6-3 Estimate with Percents
Estimate.

21. 21% of 89   22. 15% of 77   23. 21% of 78   24. 37% of 98

    $\underline{18}$ $\underline{12}$ $\underline{16}$ $\underline{40}$

25. Carlos bought a new bicycle for $189.00. State sales tax is 8%. About how much tax does he have to pay? $\underline{about \$15.00}$

6-4 Percent of a Number
Find the percent of each number. Round to the nearest tenth, if necessary.

26. 38% of 45   **27.** 51% of 200   **28.** 53% of 100   **29.** 3% of 40

          17.1   102   53   1.2

30. 99% of 98   **31.** 125% of 97   **32.** 80% of 235   **33.** 17% of 87

          97   121.3   188   14.8

34. Students who show their school I.D. get a 20% discount at the local movie theater on Saturday afternoons. Tristan saw a movie for $9.50. Find the amount of the discount. $1.90

35. Students receive a 15% discount at the town's bookstore. Jo bought books which totaled $19.95. What discount did she receive? $2.99

6-5 Solving Percent Problems
Solve. Round to the nearest tenth, if necessary.

36. 13 is what percent of 200? ___7%___   **37.** 11 is 55% of what number? ___20___

38. 88 is 25% of what number? ___352___   **39.** 9 is what percent of 87? ___10%___

40. If Juan left a tip of $2.00 on his lunch bill of $12.50, what percent did he leave for a tip?   16%

41. 88% of Ms. Harper's 25 students bought school pictures. How many students bought pictures?   22 students

42. A jacket is on sale at the mall. The regular price is $85 and it is on sale for 20% off. What is the sale price of the jacket? $68