

Extra Practice 23
Solving Problems Involving Percents
Use after Sections 8.4 and 8.6

Name _____

Solve.

1. A person's taxable income is \$18,500 one year. Federal income tax is 15% of that income. How much would that person pay for federal income tax?
_____.
2. A drug company is having a $33\frac{1}{3}\%$ more sale. Normally a 9- ounce bottle of lotion sells for \$1.99. With the sale, the same price buys $33\frac{1}{3}\%$ more. How much lotion can be bought for \$1.99? _____. (Remember that $33\frac{1}{3}\% = \frac{1}{3}$. The fraction will be easier to use.)
3. A base ball player has a batting average of 0.296, or 29.6%.The player has been at bat 135 times. How many hits did he have? _____.
4. A real estate agent receives a \$3850 commission on sale of a \$55,000 home. What was her rate of commission? _____.
5. The risk of developing the most dangerous form of skin cancer has increased 900% since 1930. There were 130 cases of this skin cancer in 1930. How many cases are expected now? _____.
6. After making a payment, a person is left with a credit card balance of \$315. How much interest will be charged on that account next month if the interest rate is 1.5% per month? Round to the nearest cent. _____.
7. A package of hamburger meat is 70% lean meat. What percent is fat?
_____.
8. A purchase of \$44.00 has sales tax of \$2.31. What is the sales tax rate?
_____.
9. Calcium carbonate is 40% calcium. A person takes 500 mg of calcium carbonate as a diet supplement. How much actual calcium does the person receive?
_____.

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10. A microwave oven is on sale for \$169.99. The regular price was \$229.99. What percent discount is the sale price? Round to the nearest whole percent.
_____.
11. A pair of jeans that regularly costs \$26 is on sale at 40% off. What is the sale price?
_____.
12. It is estimated that 12.5% of workers in the United States use a computer in their job. If 15 million workers use a computer, how many workers are there in total?
_____.
13. In the previous problem, of the 15 million workers in the United States who use a computer in their job, only 5% require extensive education in computers. How many require extensive education? _____.
14. Interest earned by a bond is 8%, compounded semiannually. How much will a \$750 bond be worth in one year? _____.
15. After tax reform, it is estimated that a person making \$21,000 will have a tax increase of 0.9%. How much more will that person pay in taxes, if his current tax bill is \$3130? Round to the nearest dollar. _____ How much will the next total tax bill be? _____.
16. A school system is required to cut its budget by 2%. Its current budget is \$135 million. What will its new budget be? _____.
17. The current recommended daily allowance (U.S. RDA) of vitamin C is 60 mg. A person takes 360 mg of vitamin C. What percent of the RDA is the person getting?
_____.
18. What is the simple interest on a loan of \$8000 at 10.5% for 3 years? _____.