

# EXTRA PRACTICE — Exercises

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## Unit II – First Degree Relations with One Placeholder

### Part E – Problem Solving Using One Placeholder

### **Lesson 7 – “Percent” Problems**

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For each of the following story problems, answer the five analysis questions to find the open sentence needed to solve. Then solve and use common sense to check your answer.

1. A flight to Miami, Florida, costs one hundred thirty dollars. During a recent promotion, a discount of thirty percent was offered. Find the amount of the discount and the discounted price.
2. A book which normally costs nine dollars and ninety cents, has been discounted by three dollars and thirty-six cents. What is the discount rate?
3. Of six hundred seventy-three people surveyed, four hundred eighteen said they favored the school budget. Find the percent in favor of the school budget.
4. In 1998, Wilson Motors sold nine hundred thirty-seven new cars. In 1997, the dealership sold eight hundred fourteen new cars. Find the percent increase or decrease in new car sales from 1997 to 1998.
5. Tim’s present salary is thirty-six thousand five hundred dollars. He is getting an increase of seven percent in his salary next year. What will his new salary be?
6. After taking 3 tests, it was observed that eighteen students received an “A” on the third test, which is one hundred fifty percent of the students who received an “A” on the second test. How many students received an “A” on the second test?
7. IFLYHI Balloon Company is hiring fifty-seven new employees, which increases its staff by thirty percent. What was the original number of employees?
8. A family estimates that eight thousand five hundred dollars of its total income of fifty-two thousand five hundred dollars is used to purchase food. What percent of the family’s income is spent on food?
9. Carl sold a truck and made a profit of six hundred seventy-five dollars. His profit was eighteen percent of the sale price. What was the sale price?
10. A football team played twelve games. They lost one game. What percent of the games played did they lose? What percent did they win?

# EXTRA PRACTICE — Answer Key

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For each of the following story problems, answer the five analysis questions to find the open sentence needed to solve. Then solve and use common sense to check your answer.

1. The amount of discount is \$39.00

The discount price is \$91.00

2. The discount rate is 33.93%

3. The group in favor is 62.11%

4. The decrease is 15.11%

5. Tim’s new salary is \$39,055

6. The number of students receiving an A on the second test is 12

7. The company originally had 190 employees

8. Approximately 16.19% of the family income is spent on food

9. The sale price of the truck is \$3750

10. The team lost  $8\frac{1}{3}\%$  of the number of games played

The team won  $91\frac{2}{3}\%$  of the number of games played