

EXTRA PRACTICE 3
Applications and Problem Solving
Use after Section 1.8

Name _____

Solve. (Be careful! Some problems have numbers included which will not be used in finding the solution.)

1. The Declaration of Independence was signed in 1776, the Constitution was framed in 1787, and the national anthem was designated in 1931. How many years elapsed between the Declaration of Independence and the Constitution? _____
2. A small business sold for \$140,000. The buyer had \$40,000, the seller loaned \$20,000, and one of the business's suppliers loaned \$20,500. The remainder was borrowed from a bank. How much was the bank loan? _____
3. The area of Alaska is 586,400 square miles. The area of Rhode Island is 1214 square miles. About how many Rhode Islands would fit into Alaska? _____
4. How many calories are in following meal? Fried beef liver at 389 calories, a baked potato at 93 calories, 2 helpings of zucchini squash at 25 calories each, cranberry sauce at 96 calories, 4 oatmeal cookies at 60 calories each, and 2 glasses of skim milk at 81 calories each.

5. The area in the United States where New Mexico, Arizona, Utah, and Colorado meet is called the Four Corners area. The areas of these four states are 121,666, 113,909, 84,916, and 104,247 square miles, respectively. The area of Texas is 267,339 square miles. How much smaller is Texas than the Four Corners states? _____
6. One package of notebook paper has 350 sheets and costs \$1.57. How many sheets of paper are there in 3 packages? _____
7. During the years of 1891-1900, there were 14,799 immigrants to the United States from China, 68 from India, 25,942 from Japan, 26,799 from Asian Turkey, and 3628 from other parts of Asia. How many immigrants were there altogether from Asia? _____

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8. The interior noise levels of sports sedans were measured at 30 mph. The lowest level was 63 decibels and the highest level was 70 decibels. How much more was the highest than the lowest? _____
9. A man bought 4 tires at \$33 each, and paid with \$20 bills. How many \$20 bills did it take, and how much change did he receive, if the sales tax was \$8? _____
10. A 4-pound bag of sugar is 64 ounces. How many 3-ounce sugar bowls can be filled from one 4-pound bag, and how many ounces will be left over? _____
11. Minneapolis and St. Paul have populations of 370,951 and 270,230 people, respectively. Dallas and Fort Worth have populations of 904,078 and 385,141 people, respectively. How many more people live in the Dallas-Fort Worth area than in the Twin Cities area?

12. Las Cruces, New Mexico, has 47,395 people. Albuquerque has 331,767 people. About how many times as large as Las Cruces is Albuquerque? _____
13. A woman who weighed 208 pounds went on a diet and now weighs 124 pounds. She took 14 months to lose the weight. How much, on the average, did she lose each month?

14. The Great Wall of China, parts of which still stand, was being built in the year 214 B.C. How many years ago was that? Use the year 2000 for the present. _____
15. A cookie recipe makes 3 dozen cookies. How many times is the recipe needed for 144 people, if each person has 2 cookies? _____
16. The average distance of the earth from the sun is 92,956,000 miles. The average distance of Mars from the sun is 141,637,000 miles. About far apart are the earth and Mars?

17. A 24-inch, 50-pound attic fan costs \$130. Shipping is \$24 for each 100 pounds. How much will it cost a building contractor to buy 10 fans? _____
18. A 9-inch pie serves 6 people and a 10-inch pie serves 7 people. How many people will 3 of the larger and 4 of the smaller pies serve? _____

19. A patient has been instructed to take pills, each of which has 60 mg of a drug. Two pills are to be taken in the morning, one is to be taken at 3 pm, and two at bedtime. How many days will 100 pills last? _____