

**EXTRA PRACTICE 20**  
**Solving Problems with Decimal Notation**  
**Use after Section 5.8**

Name \_\_\_\_\_

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

1. Joe Blow has \$531.67 in his checking account, account number 643092. He deposits his paycheck of \$456.19 and another check for \$24. He writes 2 checks, one for \$36.55, and the other for \$73.14. How much is his new checkbook balance? \_\_\_\_\_
2. A checking account balance shows \$652.35. Check number 387 is written to buy 4 tires at \$29.99 each, plus tax of \$6.30. What is the new balance? \_\_\_\_\_
3. A checker board is 506.25 square inches. How many square inches is each of the 64 squares? Round to the nearest tenth. \_\_\_\_\_
4. A driver bought 15.3 gallons of gasoline when the odometer read 25623.4. She bought 10.8 gallons of gasoline when the odometer read 25856.8. How many miles were driven? \_\_\_\_\_
5. When filling the gasoline tank a driver noted that the odometer read 43561.2. The next time he bought gasoline, the tank took 12.7 gallons and the odometer read 43755.5. How many miles per gallon did the car average? Round to the nearest tenth. \_\_\_\_\_
6. Postage stamps cost 25¢ each. How much will 70 stamps cost? \_\_\_\_\_
7. Stamps for postcards cost 15¢ each. How many can be bought for \$6.00? \_\_\_\_\_
8. The United States flag has 7 red stripes and 6 white stripes. Each stripe on a particular flag is 3.5 inches wide. How wide is the flag? \_\_\_\_\_
9. A seamstress needs 1.4 meters of cloth for a blouse, 2.5 meters for a skirt, and 2.2 meters for jacket. She has 6.3 meters of cloth. Is this enough? How much more will be needed, or how much will be left over? \_\_\_\_\_
10. One cup of  $1\frac{1}{2}$ % butterfat milk has 0.291 g of calcium. How many grams of calcium do 4.5 cups of the same milk have? Round to the nearest hundredth. \_\_\_\_\_

**EXTRA PRACTICE 20 (continued)**  
**Solving Problems with Decimal Notation**  
**Use after Section 5.8**

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11. A package of 3 bars of soap costs \$0.71. How many packages can be bought for \$4.00?  
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12. Marcy spent \$1.49 for a hamburger, 89¢ for a milkshake, and 33¢ for a pickle. Belinda spent \$1.99 for a chicken sandwich and 79¢ for a cherry pie. Who spent more for lunch? How much more? \_\_\_\_\_
13. Todd babysits his 2 neighbor children for \$2.25 an hour. One week he babysat 4 hours one day, 3 hours the next, and 5 hours the third day. How much money did he earn?  
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14. In a driving test, Car #1 had an average stopping distance of 123.60 ft (going from 50 mph to a complete stop). Car #2 had an average stopping distance of 124.20 ft. How many more feet did Car #2 need to stop? \_\_\_\_\_
15. A textbook costs \$22.95. How many can be bought for \$1000? Each book has 368 pages.  
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16. Vacation meals, per person, cost \$2.50 for breakfast, \$3.00 for lunch, and \$6.75 for dinner. How much will the meals for a full week cost for 2 people? \_\_\_\_\_
17. An 8-inch computer disk costing \$4.25 holds 1.25 megabytes. How many megabytes do 6 disks have? \_\_\_\_\_
18. Each board of a fence is 3.5 m long. How many boards will be needed for a 770 meter-long fence, if the fence is to be 4 boards high? (It might help to draw a picture.)  
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19. The length of a bacterium is 0.00003 cm. How many of this bacterium will fit length to length across a tooth that is 0.75 cm wide? \_\_\_\_\_
20. Using a vernier caliper, a machinist measures the diameter of a 10-inch rod to be 0.762 in. She needs a rod with a 0.75 diameter. How much of an inch does she need to machine off?  
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