

► Set 30 (Answers begin on page 184.)

- 465.** The town of Crystal Point collected \$84,493.26 in taxes last year. This year, the town collected \$91,222.30 in taxes. How much more money did the town collect this year?
- \$6,729.04
 - \$6,729.14
 - \$6,739.14
 - \$7,829.04
- 466.** It took Darren 3.75 hours to drive 232.8 miles. What was his average mile-per-hour speed?
- 62.08
 - 62.8
 - 63.459
 - 71.809
- 467.** Marly has budgeted \$100.00 for the week to spend on food. If she buys a beef roast that costs \$12.84 and 4 pounds of shrimp that cost \$3.16 per pound, how much of her weekly food budget will she have left?
- \$74.52
 - \$80.00
 - \$84.00
 - \$86.62
- 468.** Three 15.4-inch pipes are laid end to end. What is the total length of the pipes in feet? (1 foot = 12 inches)
- 3.02
 - 3.2
 - 3.85
 - 4.62
- 469.** If one ounce equals 28.571 grams, 12.1 ounces is equal to how many grams?
- 37.63463
 - 343.5473
 - 345.7091
 - 376.3463
- 470.** Theresa is weighing objects in kilograms. A book weighs 0.923 kilograms; a pencil weighs 0.029 kilograms; an eraser weighs 0.1153 kilograms. What is the total weight of the three objects?
- 0.4353
 - 1.0673
 - 1.4283
 - 10.673
- 471.** The Cougars played three basketball games last week. Monday's game lasted 113.9 minutes; Wednesday's game lasted 106.7 minutes; Friday's game lasted 122 minutes. What is the average time, in minutes, for the three games?
- 77.6
 - 103.2
 - 114.2
 - 115.6
- 472.** Ingrid has two pieces of balsa wood. Piece A is 0.724 centimeters thick. Piece B is 0.0076 centimeters thicker than Piece a. How thick is Piece B?
- 0.7164
 - 0.7316
 - 0.8
 - 0.08

- 473.** Michael has a twenty-dollar bill and a five-dollar bill in his wallet and \$1.29 in change in his pocket. If he buys a half-gallon of ice cream that costs \$4.89, how much money will he have left?
- \$22.48
 - \$22.30
 - \$21.48
 - \$21.40
- 474.** The butcher at Al's Meat Market divided ground beef into 8 packages. If each package weighs 0.75 pounds and he has 0.04 pounds of ground beef left over, how many pounds of ground beef did he start with?
- 5.064
 - 5.64
 - 6.04
 - 6.4
- 475.** It is 19.85 miles from Jacqueline's home to her job. If she works 5 days a week and drives to work, how many miles does Jacqueline drive each week?
- 99.25
 - 188.5
 - 190.85
 - 198.5
- 476.** Phil and Alice went out to dinner and spent a total of \$42.09. If they tipped the waiter \$6.25 and the tip was included in their total bill, how much did their meal alone cost?
- \$35.84
 - \$36.84
 - \$36.74
 - \$48.34
- 477.** Antoine earns \$8.30 an hour for the first 40 hours he works each week. For every hour he works overtime, he earns 1.5 times his regular hourly wage. If Antoine worked 44 hours last week, how much money did he earn?
- \$365.20
 - \$337.50
 - \$381.80
 - \$547.80
- 478.** The highest temperature in Spring Valley on September 1 was 93.6°F. On September 2, the highest temperature was 0.8 degrees higher than on September 1. On September 3, the temperature was 11.6 degrees lower than on September 2. What was the temperature on September 3?
- 74°F
 - 82.2°F
 - 82.8°F
 - 90°F
- 479.** A survey has shown that a family of four can save about \$40 a week if they purchase generic items rather than brand-name ones. How much can a particular family save over 6 months? (1 month = 4.3 weeks)
- 1,032
 - 1,320
 - 1,310
 - 1,300

ANSWERS

465. a. simple subtraction problem. Align decimal points and subtract.
- 466. a.** This is a division problem. Because there are two decimal digits 3.75, move the decimal point two places to the right in both numbers. This means you must tack a zero on to the end of 2328. Then divide: $23,280 \div 375 = 62.08$.
- 467. a.** This is a three-step problem that involves multiplication, addition, and subtraction. First, to determine the cost of the shrimp, multiply 3.16 by 4; $3.16 \times 4 = 12.64$. Then add the price of both the shrimp and the beef: $12.64 + 12.84 = 25.48$. Finally, subtract to find out how much money is left: $100.00 - 25.48 = 74.52$.
- 468. c.** This is a two-step problem involving multiplication and division. First, determine the length of the pipes in inches by multiplying: $15.4 \times 3 = 46.2$. Next, divide to determine the length in feet; $46.2 \div 12 = 3.85$. Because there are no decimal points in 12, you can move the decimal point in 46.2 straight up into the quotient.
- 469. c.** This is a multiplication problem. Be sure to count four decimal places from the right in your answer: $28.571 \times 12.1 = 345.7091$.
- 470. b.** This is an addition problem. Arrange the three numbers in a column and be sure that the decimal points are aligned. Add: $0.923 + 0.029 + 0.1153 = 1.0673$.
- 471. c.** This is a two-step problem involving both addition and division. First, arrange the three numbers in a column, keeping the decimal points aligned. Add: $113.9 + 106.7 + 122 = 342.6$. Next, divide your answer by 3: $342.6 \div 3 = 114.2$.
- 472. b.** This is an addition problem. Be sure the decimal points are aligned before you add; $0.724 + 0.0076 = 0.7316$.
- 473. d.** This problem involves two steps: addition and subtraction. Add to determine the amount of money Michael has: $20.00 + 5.00 + 1.29 = 26.29$. Then, subtract the amount of the ice cream: $26.89 - 4.89 = 21.40$.
- 474. c.** This is a two-step problem. First, multiply to determine how many pounds of beef were contained in the 8 packages; $0.75 \times 8 = 6$. Then add; $6 + 0.04 = 6.04$.
- 475. d.** This is a two-step multiplication problem. First multiply; $5 \times 2 = 10$, which is the number of trips Jacqueline drives to get to work and back. Then multiply 19.85 by 10 by simply moving the decimal one place to the right.
- 476. a.** This is a simple subtraction problem; $42.09 - 6.25 = 35.84$.
- 477. c.** This is a three-step problem. First, multiply to determine the amount Antoine earned for the first 40 hours he worked; $40 \times 8.3 = 332$. Next, multiply to determine his hourly wage for his overtime hours: $1.5 \times 4 = 49.8$. Finally, add the two amounts; $332 + 49.8 = 381.8$.
- 478. c.** This is a two-step problem involving both addition and subtraction. First add; $93.6 + 0.8 = 94.4$. Then, subtract; $94.4 - 11.6 = 82.8$.
- 479. a.** This is a two-step multiplication problem. First, multiply to find out how many weeks there are in 6 months: $6 \times 4.3 = 25.8$. Then, multiply to find out how much is saved: $\$40 \times 25.8 = \$1,032$.
- 480. a.** This is a subtraction problem. Be sure to align the decimal points; $6.32 - 6.099 = 0.221$.