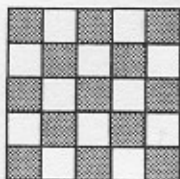


11. David purchased a boat for a total cost of \$2240. He made a \$440 down payment and agreed to pay the remainder in 24 equal payments. What will be the dollar amount of each payment? 11. _____

12. What percent of the five-by-five square is shaded? 12. _____



13. The sum of two numbers is 30. Their difference is 4. What is the larger of the two numbers? 13. _____

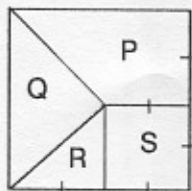
14. Find the sum: $1 + 2 + 3 + 4 + \dots + 48 + 49$ 14. _____

15. Twice a number decreased by 13.7 is greater than 125.28. What is the smallest integer that satisfies this condition? 15. _____

16. A clothing dealer sold two shirts at \$12 each. On one he made a profit of 20%; on the other he lost 20%. How many dollars did he lose on the two sales combined? 16. _____

17. When the fraction $\frac{465}{527}$ is expressed in lowest terms, what is the sum of its numerator and denominator? 17. _____

18. Four students agreed to pool their savings to purchase a computer. The portions contributed are represented proportionately by the areas in the diagram below. What percent of the total did Q contribute? 18. _____



19. In 4 baseball games, a batter had 3 hits in 5 times at bat, 1 hit in 4 times at bat, 2 hits in 5 times at bat, and no hits in 4 times at bat. What was her batting average for the four games? Express your answer as a decimal rounded to the nearest thousandth. 19. _____

20. What is the greatest common factor of 518 and 294? 20. _____

21. If \$1,000 is invested at 10% compounded annually, what is the account balance in dollars at the end of two years? 21. _____
22. Kara randomly selected a number from the set $\{2, 4, 6, \dots, 22\}$ as the length of a side of a square. What is the probability that the area of her square is less than 144? Express your answer as a common fraction. 22. _____
23. Find the smallest positive integer divisible by 10, 11, and 12. 23. _____
24. Six times the reciprocal of a number is $\frac{9}{4}$. What is the number? Express your answer as a mixed number. 24. _____
25. Express $0.\overline{5}$ as a common fraction. 25. _____
26. When a number is divided by 7, the quotient is 28 and the remainder is 6. What is the number? 26. _____
27. Name the greatest whole number less than 100 that has an odd number of positive factors. 27. _____
28. Find the value of the complex fraction below. Express your answer as a common fraction. 28. _____

$$\frac{1}{4 - \frac{1}{1 - \frac{1}{4}}}$$

29. Find the sum of the mean and the median of the given set: 29. _____

$$\{2^0, 2^1, 2^2, 2^3, 2^4, 2^5\}.$$

Express your answer as a mixed number.



30. How many distinct license plate "numbers" can be created that consist of two letters followed by four digits? Express your answer in scientific notation. 30. _____