

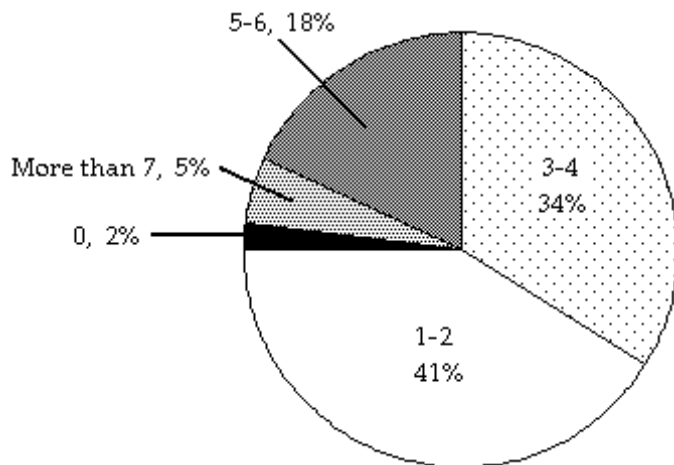
Name_____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Solve.

- 1) A gallon of stain covers 200 square feet. How many gallons are needed to paint two coats of stain on a deck that measures 20 feet by 35 feet? 1) _____
- 2) Melissa invested an amount of money in a stock that earned an annual 3% return. She invested three times the original amount in another stock that earned an annual 5% return. If her total yearly return from both investments was \$5400, find out how much she invested at 3%? 2) _____
- 3) You have taken up gardening for relaxation and have decided to fence in your new rectangular shaped masterpiece. The length of the garden is 10 meters and 36 meters of fencing is required to completely enclose it. What is the width of the garden? 3) _____
- 4) How much would an initial bank deposit need to be in order to earn \$1100 at 18% for 5 years? (Round to the nearest dollar.) 4) _____

The circle graph below shows the number of pizzas consumed by college students in a typical month. Use the graph to answer the question.



- 5) What percent of college students consume 3-4 pizzas in a typical month? 5) _____
- 6) If State University has approximately 44,000 students, about how many would you expect to consume 5-6 pizzas in a typical month? 6) _____

Solve. If needed, round money amounts to two decimal places and all other amounts to one decimal place.

- 7) 7% of students at a university attended a lecture. If 3000 students are enrolled at the university, about how many students attended the lecture? 7) _____
- 8) A store is advertising 40% off sale on everything in the store. Find the discount of a painting that regularly sells for \$270. 8) _____

Solve.

9) The length of a rectangular room is 8 feet longer than twice the width. If the room's perimeter is 136 feet, what are the room's dimensions? 9) _____

10) The perimeter of a triangle is 52 centimeters. Find the lengths of its sides, if the longest side is 9 centimeters longer than the shortest side, and the remaining side is 4 centimeters longer than the shortest side. 10) _____

Fill in the blank with one of the words or phrases listed below.

- | | | | |
|-----------------|------------------------|---------------|---------------------------|
| (A) base | (D) inequality symbols | (G) opposites | (J) like terms |
| (B) denominator | (E) grouping symbols | (H) exponent | (K) numerical coefficient |
| (C) variable | (F) equation | (I) solution | (L) numerator |

11) The symbols \neq , $<$, and $>$ are called _____. 11) _____

12) A mathematical statement that two expressions are equal is called a(n) _____. 12) _____

13) A symbol used to represent a number is called a _____. 13) _____

14) The number in a fraction above the fraction bar is called the _____. 14) _____

15) A _____ of an equation is a value for the variable that makes the equation a true statement. 15) _____

16) The number in a fraction below the fraction bar is called the _____. 16) _____

17) Parentheses and brackets are examples of _____. 17) _____

18) Terms with the same variables raised to exactly the same powers are called _____. 18) _____

19) Inequalities containing two inequality symbols are called _____. 19) _____

20) The _____ of a term is its numerical factor. 20) _____