Word Problems With Two Unknowns – Practice

Answer each of the following questions on a separate piece of paper. Include let statements, an equation, required solving steps, and a concluding statement

1. The length of a rectangular garden is six more than the width. The perimeter of the garden is 800 cm. Determine the length and the width of the garden.

2. The length of a rectangle is triple the width. The perimeter is 54 m. Find the dimensions of the rectangle.

3. Marie, Brenda, and Deepa all went for a run. Marie ran twice as far as Brenda, and Deepa ran 3 km less than Marie. Together, they ran a combined distance of 22 km. How far did each person run?

4. A contest gives out prizes for first, second, and third place. First place is $500 more than double third place. Second place is $400 less than first place. All together, $1850 is given out in prizes. How much is each prize worth?

5. Janine and her older sister Ingrid's ages are consecutive even numbers. When Janine's age is divided by seven, and Ingrid's age is divided by three, the sum of those numbers is fourteen. How old are Janine and Ingrid?

6. Kaspar has a total of 100 red and green jelly beans. Three times the number of red, decreased by 3 equals double the number of green, increased by 2. How many of each colour are there?

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Answers

1] Width: 197 cm, Length: 203 cm
2] Length: 20.25 m, Width: 6.75 m
3] Brenda: 5km, Deepa: 7 km, Maria: 10 km
4] First: $1000, Second: $600, Third: $250
5] Janine: 28, Ingrid: 30
6] Red: 41, Green: 59

Word Problem Homework

Solve the following word problems on a separate sheet of lined paper. Your solutions must include a LET statement, an equation that is solved, and a concluding sentence.

1. Four times Karen's age, plus three, is equal to sixty three. How old is Karen?

2. Bob's age is doubled and then three is added to it. The result is seventy one. How old is Bob?

3. Seven less than triple the number of players on a team is eighty three. How many players are on the team?

4. When I double the number of glasses on the table and then add nine, the result is twenty five. What is the number?

5. The product of eight and a number, increased by fifty, equals eighteen. What is the number?

6. Thirty-five more than half of a number equals thirty-two. What is the number?

7. Three more than five times the number of toys on the floor is forty three. How many toys are on the floor?

8. When thirteen is subtracted from the product five and the number of squirrels in a park, the result is twenty seven. How many squirrels are in the park?

9. Seven less than five times a number equals twice the number, minus one. What is the number?

10. Twice a number, increased by three, equals one less than three times the number. What is the number?

11. One half of a number, increased by three, equals fifteen. What is the number?

12. One less than half of a number is equal to one third of the number, increased by two. What is the number?

ANSWERS

1] *15*   *2]* *34*   *3]* *30*   *4]* *8*   *5]* *-4*   *6]* *-6*   *7]* *8*   *8]* *8*   *9]* *2*   *10]* *4*   *11]* *24*   *12]* *18*