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Algebra Word Problems

1. Twice a number is 500 more than six times the number. What is the number?

2. Three-sevenths of a number is 24. Find the number.

3. What number increased by ¼ of itself is equal to 30?

4. Find a number such that ¼ of the number is 50 less than 2/3 of the number.

5. The denominator of a fraction exceeds the numerator of a fraction by 25. The value of the fraction is 3/8. Find the fraction.

6. If 6 times a number is decreased by 6, the result is the same as when 3 times the number is increased by 12. Find the number.

7. If 3 times a number is increased by 22, the result is 14 less than 7 times the number. What is the number?

8. Separate 84 into two parts such that one part will be 12 less than twice the other.

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9. The difference between two numbers is 24. Find the numbers if their sum is 88.

10. One number is 3 times another number. If 17 is added to each, the first resulting number is twice the second resulting number. Find the two numbers.

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