

So, far, you have seen only the first part of algebra word problems. To complete an algebra problem, an equal sign must be added. The words “is” or “are” as well as “equal(s)” signal that you should add an equal sign.

Translate the following word problems into algebra problems. **DO NOT** find the solutions to the problems yet.

1. Triple the original number, n , is 2700.	2. The product of a number, y , and 5 is equal to 15.
3. Four times the difference of a number, x , and 2 is greater than 20.	4. The total, t , divided into 5 groups is less than 45.
5. The number of parts in inventory, p , minus 54 parts sold today is 320.	6. One-half an amount, x added to \$50 is \$262.
7. One hundred seeds divided by 5 rows equals n number of seeds per row.	8. A number, y , less than 50 is 82.
9. His base pay of \$200 increased by his commission, x , is \$500.	10. Seventeen more than half a number, h , is 35.
11. This month's sales of \$2300 are double January's sales of x .	12. The quotient of a number, w , and 4 is 32.
13. Six less a number, d , is greater than 12.	14. Four times the sum of a number, y , and 10 is no less than 48.
15. We started with x number of students. When 5 moved away, we had 42 left.	16. A number, b , divided into 36 is at least 12.

Creating Equations

Name: _____

1. Fluffy, Spot, and Skippy have a combined age in dog years of 91. Spot is 14 years younger than Fluffy. Skippy is 6 years older than Fluffy. What is Fluffy's age, f , in dog years?
2. Jerry puts 5% of the amount he makes per week into a retirement account, r . He is paid \$11.00 per hour and works 40 hours per week for a certain number of weeks, w . Write an equation to help him find out how much he puts into his retirement account.
3. A furniture store advertises a 40% off liquidation sale on all items. What would the sale price, p , be on a \$2530 dining room set?
4. Kyle buys an item which normally sells for a certain price, x . Today the item is selling for 25% off the regular price. A sales tax of 6% is added to the equation to find the final price, f .
5. Tamika runs a floral shop. On Tuesday, Tamika sold a total of \$600 worth of flowers. The flowers cost her \$100, and she paid an employee to work 8 hours for a given hourly wage, w . Write an equation to help Tamika find her profit, p , on Tuesday.
6. Abby is a waitress at a local restaurant. She makes an hourly wage of \$3.50, plus she receives tips. On Monday, she works 6 hours and receives tip money, t . Write an equation showing what Abby makes on Monday, y .
7. Taylor buys x shares of stock in a company at \$34.50 per share. She later sells the shares at \$40.50 per share. Write an equation to show how much money, m , Taylor has made.

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