

Statements Translated into Algebraic Language Using X as the Unknown

<u>STATEMENT</u>	<u>ALGEBRA</u>
1. Twice as much as the unknown	$2x$
2. Two less than the unknown	$x-2$
3. Five more than the unknown	$x+5$
4. Three more than twice the unknown	$2x+3$
5. A number decreased by 7	$x-7$
6. Ten decreased by the unknown	$10-x$
7. Sheri's age (x) 4 years from now	$x+4$
8. Dan's age (x) 10 years ago	$x-10$
9. Number of cents in 2x dimes	$10(2x)$
10. Number of cents in x quarters	$25x$
11. Number of cents in x+5 nickels	$5(x+5)$
12. Separate 17 into two parts	x and $17-x$
13. Distance traveled in x hours at 50 mph	$50x$
14. Two consecutive integers	x and $x+1$
15. Two consecutive even integers	x and $x+2$
16. Two consecutive odd integers	x and $x+2$
17. Interest on x dollars for 1 year at 5%	$0.05x$
18. \$20,000 separated into two investments	x and $20,000-x$
19. Distance traveled in 3 hours at x mph	$3x$
20. Distance traveled in 40 minutes at x mph (40 minutes = $\frac{2}{3}$ of an hour)	$2x/3$
21. Sum of a number and 20	$x+20$
22. Product of a number and 3	$3x$
23. Quotient of a number and 8	$x/8$
24. Four times as much	$4x$
25. Three is four more than a number	$3 = x+4$

<u>ADD</u>	<u>SUBTRACT</u>	<u>MULTIPLY</u>	<u>DIVIDE</u>
sum	difference	product	quotient
add	subtract	times	ratio
more than	less than	twice	divided by
increased by	decreased by	percent of	into
plus	minus	multiply	
total			

Is, was, will be, become the equals sign (=) in algebra.

If 7 exceeds 2 by 5, then $7 - 2 = 5$. *Exceeds* becomes a minus sign (-) and *by* becomes an equals sign (=).