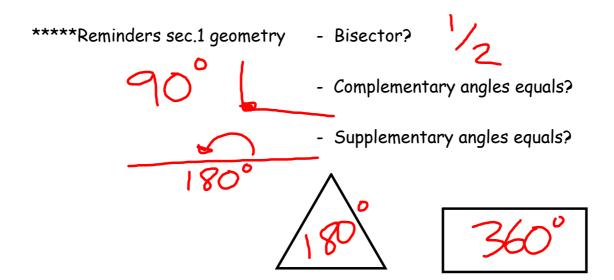
Lesson 8 Writing Algebraic Expressions (English to Math)



Algebraic Translation (English to Math)

MATHEMATICS	ENGLISH EQUIVALENT
+	plus, add, increase, greater than larger, augment, sum, more than
-	subtract, minus, negative, decrease, less than, reduce, diminish, difference
Х	times, of, multiply, product
+	divided, goes into, a certain number of parts, quotient
=	equal, equal to, is, results in, gives you, makes
a, q, t, p, y, z, n, d, g, etc.	a number, an age, a quantity, a mass, a volume, a certain amount, etc.
7x	seven times a number, a number times seven, product of 7 & x
+ 6	a number increased by six, six larger than a number, etc.
- 9	a number decreased by nine, nine less than a number, a number reduced by nine, etc.
4x + 7 = 8	four times a number plus seven equals eight.
(x)(x) or x2	a number times itself, a number squared
2x	double or twice a number
3x	triple or three times the number
X ³	a number cubed

the result increased by thirty-seven

20. Seven is increased by half a number

21. An age plus twice this age is tripled

22. One-sixth of the length of a rectangle

23. An unknown number is added to three decimal five

date

ASSIGNMENT

name

Represent each of the following phrases by an algebraic expression.

y increased by 8 2. Nine subtracted from k Three more than x A number diminished by 4 Five times a number increased by 2 Two less than three times x 7. The sum of x and 1 multiplied by 4 Nine more than 7 times x Two times the difference of n and 3 10. The product of 4 and y increased by 8 11. Five added to one half of x 12. Four greater than x13. A number divided by 5 is decreased by 6 14. One half the sum of x and 5 15. Three less than y 16. Twice x diminished by 7 17. The product of 7 and y subtracted from 5 18. Four increased by 3 times y 18. Four increased by 3 times y
19. Six less than 19. Six less than a third of n 20. Three times x, diminished by 2 21. The number n is doubled 22. The number x decreased by half of itself 23. x added to twice n 24. Eight times the sum of x and ll 25. Three more than the product of 7 and x 26. Fifteen longer than 3 times x 27. The difference between 2x and 5 28. The sum of x and 6 divided by 3 The difference between twice x and half of n 29. 5 divided by twice the sum of a and x30. 31. Five more than 2 times a number 32. Seven less than five times a number 33. Five times a number decreased by 2 34. Two diminished by 7 times a number 35. Three increased by 5 times a number 36. Nine less than a number Nine diminished by 4 times a number 37. Two times the sum of a number and 8 39. Two-thirds of a number Three times the sum of twice a number and 8 40. Two years younger than 6 times age x 41. 42. Six years older than twice the age n 43. Nine meters less than twice n 44. A number squared

45. Nine decreased by one-third of x