8/20/18

An **algebraic expression** is a mathematical phrase that can contain ordinary numbers, variables (like x or y) and operations (like add,subtract,multiply, and divide).

EX: X+2, 5x, a+b, $3x^2-2$

# ADDITION

- Add
- More than
- Increased by
- Plus
- Sum

# SUBTRACTION

- Difference
- Less than
- Subtract
- Decreased by
- Minus

# MULTIPLICATION

- Product
- Times
- Multiple

# DIVISION

- Quotient
- Ratio
- Divided by

| ENGLISH | MATH |
|---|---|
| • Seven more than n | $7 + n$ or $n + 7$ |
| • Difference of n and 7 | $n - 7$ |
| • Product of seven and n | $7 \times n$ or $7 \cdot n$ or $7n$ or $(7)(n)$ |
| • Quotient of n and 7 | $n \div 7$ or $\dfrac{n}{7}$ |

| ENGLISH | MATH |
|---|---|
| • Three times x to the fourth power | $3x^4$ |
| • 4 decreased by a number | $4 - x$ |
| • 4 less than a number | $x - 4$ |
| • 8 times the sum of a number and 5 | $8(x + 5)$ |

# Translate to an algebraic expression.

$h$

$14$

$x + 14$

# Translate to an algebraic expression.

6

$t - 6$

# Translate to an algebraic expression.

$$7 \qquad h \qquad 11$$

$$11x + 7$$

# Translate to an algebraic expression.

$$1 \qquad\qquad h$$

$$7$$

$$\frac{r}{7} - 1$$

# Translate to an algebraic expression.

$$n^3 + 5$$

# Translate to an algebraic expression.

$5$  $h$

$$5z^2 + 16$$

# Translate to an algebraic expression.

*8*          *h*

a number and 5

$8(2x+5)$