Evaluating Expressions

$a = 1$

$b = 2$

$c = 3$

$a + b + c =$

$1 + 2 + 3 = 6$

$c - a =$

$3 - 1 = 2$

symbols for multiplication

		examples
1) traditional	$\times$	$4 \times 3 = 12$
2) asterisk	$*$	$7 * 6 = 42$
3) dot	$\cdot$	$3 \cdot 5 = 15$
4) parenthises	$( )$	$n(3-1) = n(2) = 2n$
5) adjacent letters	ab	$ab = a \cdot b = a * b$
6) numbers next letters	$3b$	$3b = 3 \cdot b = 3(b)$
7) exponents	m^2	$m^2 = m \cdot m = mm$

symbols for division

1) traditional $10 \div 5 = 2$

2) fractions $\frac{10}{2} = 10/2 = 5$

3) long division $3\overline{)12}$ $\quad 4$

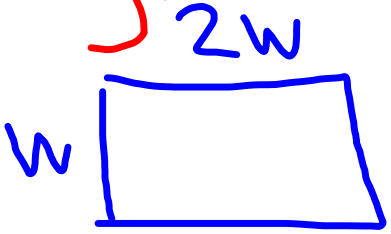
4) letters $\frac{a}{b} = a/b = a \div b = b\overline{)a}$

Modeling Verbal Expressions

let x represent an unknown expression

Example:

- eight more than four times the number
  $4x+8$
- difference of nine and the number
  $9-x$
- length of a rectangle is twice the width



Practice

let a=1; b=2; c=3 and so on until z=26

*have your parents give you problems like

$$\frac{a+x}{e} = \frac{1+24}{5} = 5$$

(answers on next page)

Try:

abcde =

abcdefg =

math =

and if you have a lot of time and energy,

geometry =

Try:

abcde = 1x2x3x4x5 = 120

abcdefg = 1x2x3x4x5x6x7 = 5,040

math = 13x1x20x8 = 2,080

geometry = 7x5x15x13x5x20x18x25 = 307,125,000