9.21.10
Tuesday

1.5: Evaluating Algebraic Expressions

Do Now

- Put homework on your desk
- Create an example of commutative property (using 4 and 7)

$7 \times 4 = 4 \times 7$
or
$4 \times 7 = 7 \times 4$

Vocabulary

- Variable
- constant
- coefficient
- algebraic expression
- evaluate

The expression $\boxed{y+7}$ represents Sidney's age when her brother is $\boxed{y}$ years old. If the brother is 4 years old, how old is Sidney?

Evaluate $y+7$ for $y=4$.

So now y is now always 4 in this problem.

$y+7$ (algebraic expression)

$4+7$ Substitute 4 for y

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Evaluate: $x+5+x$ for $x=3$

$3+5+3=11$

$4x$ "coefficient"
"variable"

$4x-3$ for $x=2$

$4\times2-3=5$

$4(2)-3=5$

$4x-3$ for $x=y+8$

$4(y+8)-3$

$4y+32-3$

$\boxed{4y+29}$

$5Q^2+3Q$, for $Q=2$

$5\cdot2^2+3\cdot2$

$5\cdot4+3\cdot2$

$20+3\cdot2$

$20+6$

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