# Algebra I <br> 1-1 <br> Orders of Operations, Definition of Variable 



Simplify each expression.

| 1) $8+3 \cdot 4$ | 2) $(8+3) 4$ | 3) $(8-3)+4$ | 4) $29-(0 \cdot 9)$ |
| :---: | :---: | :---: | :---: |
| [8+12] |  | 5 | 29-0 |
| 20) | 44 | 9 | 29 |

I prefer working up and down.
Some like left and right. I think
it is easier to correct mistakes
up and down.
1)
$\begin{array}{rr}7 & 7.4 \\ \times 4 & \text { or } \\ 28 & 7(4)\end{array}$
2) $36 \div 9$
$\frac{36}{9}=4$
We don't use the $x$
for multiply so w
don't confuse it
In algebra, we
usually use the
fraction bar to
indicate a division.
3) one and a half
$1 \frac{1}{2}$ Mr. Holm
use hates fon
$\frac{3}{2}$

Mazz uses mixed numbers
Mr. Puisto uses decimals, I call improper fractions.

Use what each teacher requires.
.

Definition of Variable - A letter or a symbol the represents an unknown value, or a value that may change.

Evaluate each expression if $t=6, x=3, y=4$, and $z=5$.
5) $2 x+7$ 2(3) +7 $6+7$
6) $2(x+7)$
2(3+7)
2(10)
20

$$
\begin{aligned}
& \text { 7) } 5(3 y-4 x) \\
& 5(3 \cdot 4-4 \cdot 3) \\
& 5(12-12) \\
& 5(0)
\end{aligned}
$$

13

Evaluate each expression if $t=6, x=3, y=4$, and $z=5$.
8) $2[x+4(y+z)]$ (Try on your own)
$2[3+4(4+5)]$

$$
2[3+4(9)] \text { Multiply first. }
$$

$$
2[3+36]
$$

$$
\begin{gathered}
2[37] \\
78
\end{gathered}
$$

| Assignment: |
| :--- |
| Text: The Classic (1-2) |
| pg 8 |
| $2-32$ even |

