

6th Honors: Clear your desk except for...

1. Student Information Sheet
2. Homework Policy
3. Student Notebook

Warm-up: Complete in your spiral notebook.

1. $2,215(52)$

$$\begin{array}{r} 2,215 \\ \times 52 \\ \hline 4430 \\ +110750 \\ \hline 115,180 \end{array}$$

2. $4500 - 3298$

$$\begin{array}{r} 4500 \\ -3298 \\ \hline 1202 \end{array}$$

3. $4680 \div 22$

Quotient	Divisor	Dividend
212.72	22	4680.00
	-44	
	28	
	-22	
	60	
	-44	
	160	
	-154	
	60	
	-44	
	16	

4. $\frac{4763}{12}$

$$\begin{array}{r} 396.91\bar{6} \\ 12 \overline{)4763.000} \\ \underline{-364} \\ 116 \\ \underline{-108} \\ 83 \\ \underline{-72} \\ 110 \\ \underline{-108} \\ 20 \\ \underline{-12} \\ 80 \\ \underline{-80} \\ 0 \end{array}$$

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How are numeric and algebraic expressions evaluated and simplified?

Variable	vs.	Constant
A letter or symbol that represents a number a, b, x, \square		$\frac{1}{2}, 25, 0.25$ #s that keep the same value.

*Variables can have different values.

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Evaluate	Perform all of the operations!	
Simplify	Equation	Expressions
	Solve Equal sign $x + 5 = 10$	no equal Evaluate Simplify $5 + 6$
		#s, Operations Constants Variables

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Examples:
Evaluate the expressions

1. $m - 9$, when $m = 15$
 $15 - 9$ (Substitute)
 6 (Evaluate)

2. $8c$, when $c = 3$
 $8(3)$
 24

3. $\frac{k}{p}$, when $k = 13$ and $p = 24$
 $\frac{13}{24}$

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a^x base	exponent Power	How do we
Ex 1: 3^4	Ex 2: $2^3 \cdot 5^2$	How do v
$3 \cdot 3 \cdot 3 \cdot 3$ 9 · 9 81	$2 \cdot 2 \cdot 2 \cdot 5 \cdot 5$ 8 · 25 200	

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