Name				_	Date	
		Expression	s and Equ	iations Ro	eview Pack	et 🛒
1) Vo	cabulary					Ministration of the second
	Don't fo	rget to study your t	erms. The Quizl	et is a great reso	ource.	
2) Eva	luating E	xpressions			(P & 3 3
	Input the	e values and simplif	y using Order of	Operations (PE	MDAS/GEMS)	
	m	m + 7	d	$\frac{d}{2}$	n	4 n + 3
	5		6	2	4	
	8		6		6	
	20		10		12	
3) Vei	bal Phras	Ses	42			
	Writing	Expressions:				
	a) 5 mo	re than a number _		_ b) The sum	of 8 and a numbe	r
	c) Half of a number			d) 12 less t	han a number	
	e) Jane i	s twice as old as Ed.	How old is Jane	e if Ed is d years	old?	
	f) If you	read 9 pages a day	for <i>d</i> days. How	v many pages di	d you read?	
	Writing	Equations:				
	a) The s	um of 25 and a num	nber is 34		-	
	b) Jan h	as <i>d</i> dollar in her ba	nk account. She	e spends \$12 an	d has \$54 left	
	c) Peter	makes \$12 an hour	(h) stacking wo	od. He now has	\$ \$288	
	Writing	Inequalities:)			
	a) x is less than 10			b) y is greater than 52		
	c) x is no	o more than 89		d) x is at mo	ost 150 lbs	

4) Combine Like Terms

Only combine terms that are 'alike'. Use Highlighters

Only use an exponent if the variables are being multiplied

a)
$$4x + 3x + 7 + 2$$

b)
$$7x + 2y + 3x + 2 + y$$

c)
$$6m + 12 - 2m - 1$$

d)
$$4c + 4d + 7c - 3d$$

e)
$$4b + 3a + 7b + 2a$$

f)
$$4g - 2g + 7h - 2h$$

Complete the table by expanding or combining each expression.

Expanded Terms	Combined Terms
b+b+b+b+b	
	4m
a + a + a	
	4p + n
x + x + y + x + y	

5) Distribute and Combine Like Terms

Santa Hat- Multiply EVERY term in the parentheses



a)
$$5(x + 3)$$

b)
$$9(7-3j)$$

c)
$$4(2x + 3y - 6)$$

d)
$$4(2x + 3) + 3x$$

e)
$$9(4-3b)-12$$

f)
$$4(4a+3)-6a+2$$

6) Factor

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Pull out the GCF (take out the largest group of friends). Distribute to check.

a)
$$5x + 10$$

b)
$$12m - 24$$

c)
$$2 - 6a$$

d)
$$4m + 12n - 8$$

e)
$$18x + 27y - 63$$

f)
$$42g - 56$$

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7) Solving One-Step and Two-Step Equations

Use inverse operation to solve equations.

Input your solution to check your answers.

a)
$$5x = 45$$

b)
$$m - 2.4 = 3$$

c)
$$c + 19 = 45$$

Check:

Check:

Check:

d)
$$\frac{x}{9} + 5 = 12$$

e)
$$3m - 7 = 2$$

f)
$$3(g+2) = 16$$

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Check:

Check:

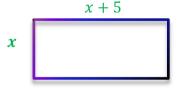
Check:

8) Area and Perimeter

Write an equation and find the missing side length for each.

a) The perimeter of the rectangle is 36ft.

b) The area of the rectangle is $48m^2$



4*x*

Equation:

Equation:

Missing Side Lengths:

Missing Side Lengths:

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9) Tables and Rules

Find the Rule in the input/output table and write the equation

Determine the 'independent variable' and the 'dependent variable'

Independent Variable- Input value. Usually x

Dependent Variable- Output Value. Usually y

х	у
2	7
3	8
4	
	14

m	n
9	7
11	9
13	
	24

а	b
3	9
5	15
7	
	36

g	h
12	2
18	3
24	
	8

Equation:

Equation:

Equation:

Equation:

Independent Variable:

Independent Variable:

Independent Variable:

Independent Variable:

Dependent Variable:

Dependent Variable:

Dependent Variable:

Dependent Variable:

10) Is the value a solution to the inequality?

a)
$$m = 5$$

b)
$$g = -7$$

c)
$$y = 0$$

d)
$$h = 2.4$$

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$$g \leq -7$$

$$5 \le y$$

yes or no?

e)
$$m = 3$$

f)
$$g = 3$$

g)
$$y=0$$

h)
$$h = 1.9$$

$$m + 2 \le 5$$

$$2g \geq 7$$

$$4 \ge 5y$$

$$h + 0.9 < 3$$

yes or no?

11) Graphing Inequalities

Graph the Inequality



b)
$$x > -3$$









d)
$$x \ge -1$$

e)
$$x < 0$$

f)
$$x \ge 1.5$$

c) $x \leq 4$







Write an Inequality

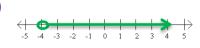
a)



b)



c)



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Inequality:

Inequality:

Inequality:

Additional Suggestions:

Use 'checking 'strategies that we have been talking about in class.

Review your Quiz. Make sure you understand your errors.

Come and see me before or after school on Tuesday if you need help.