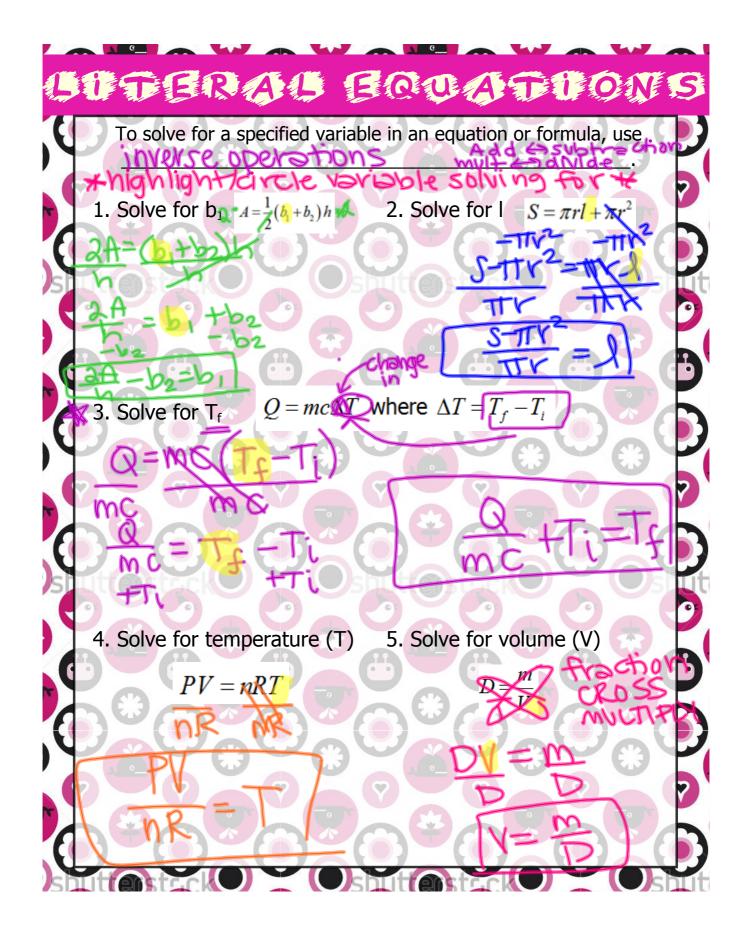




Name V		t dic	i Di	r. D	ror	ne S	Say	To	the	Guy v				Period: He Was a \$100 Bill?	EL .	5 Com
Simplif	y the	radio	al e	expr	essio	on c	omp	letel	y and	find y	our an	swer	in the	adjacent answer column.		
Write t	the le	tter c	f th	e ex	_	se ir	_	-		-				f the answer. Use the back tch paper to show your wo	/C=X40%	
1	2	3	4	5	6	7	8	9	10	11	P	iece c	n SCI	ich paper to show your wor	٨.	E.
12	13	14 1	5	16	17	18	19	20	21	22 2	3 24	25	26 2	27 28 29 30 31 32 3	3 34 35 36	37 38
G ,	√12								9	5√2			Α	$2\sqrt{18}$	6	36
i,	√ 50								2	5√5			0	$8\sqrt{28}$	18	$6\sqrt{2}$
0	√ <u>45</u>								33	4√3			G	$-3\sqrt{1000}$	21	$25\sqrt{3}$
E ,	√600								14	10√€	5		E	5√75	26	$54\sqrt{2}$
S,	√98								20	2√3			D	$-4\sqrt{490}$	29	$16\sqrt{7}$
U,	√ <u>48</u>								23	9√2			L	$9\sqrt{72}$	13	$-28\sqrt{5}$
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P (√4) 7√2`	2							32	256			<u>) </u>		Iq	$\frac{5}{9}$
(/ 4 4	1											N	$\sqrt{\frac{50}{162}}$	16	$\sqrt{5}$
													Н	36	35	$\sqrt{3}$



Name: Date: Period:

What did dy. duod say to the boy who swallowed a spoon?

Solve the formula for the indicated variable, then circle the letter next to your answer. Write this letter in the box at the bottom of the page containing the exercise number. Use the back or a piece of scratch paper to show your work



1.
$$W = rt$$
, for t

$$t = W$$

2.
$$h = \frac{A}{h}$$
, for A

3.
$$I = \frac{P}{F}$$
, for E

$$\mathbf{G} \quad E = \frac{I}{P}$$

$$E = \frac{P}{I}$$

4.
$$P = \frac{V^2}{R}$$
, for R

$$R = V^2 P$$

5.
$$K = \frac{abc}{3y}$$
, for y

$$y = \frac{abc}{3K}$$

6.
$$\frac{M}{N} = \frac{P}{Q}$$
, for Q

$$\mathbf{Q} = \frac{PN}{N}$$

$$\mathbf{Q} = \frac{NP}{M}$$

7.
$$a = \frac{v - v_i}{t}$$
, for v

8.
$$\frac{E}{e} = \frac{B+b}{b}$$
, for e

9.
$$Q = mc(T_f - T_i)$$
, for T_i

$$T_i = \frac{-Q}{mc} + T_f$$

10.
$$PV = nRT$$
, for V

11.
$$A = \frac{1}{2}(b_1 + b_2)h$$
,
for h

B
$$h = \frac{A}{2(b_1 + b_2)}$$

12.
$$A = \frac{1}{2}aP$$
, for *P*

$$\mathbf{Q} P = \frac{A}{2a}$$

$$P = \frac{A}{2a}$$

$$P = \frac{2A}{a}$$

13.
$$y = mx + b$$
, for *b*

$$b = y + mx$$

$$6 b = y - mx$$

14.
$$\frac{h}{g} = \frac{kB}{d^2}$$
, for B

$$B = \frac{hd^2}{k\sigma}$$

15.
$$m = \frac{F(L-x)}{x}$$
, for L

$$L = \frac{mx}{F} + x$$

$$L = \frac{F}{mx} - x$$

16.
$$\frac{1}{d} = \frac{d}{p+q}$$
, for q

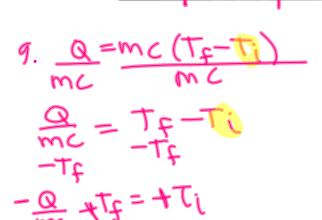
17.
$$a = \frac{v_f - v_i}{\Delta t}$$
, for v_f

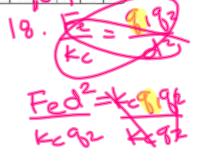
$$\mathbf{0} \quad v_f = a\Delta t + v_i$$

18.
$$F_e = k_c \left(\frac{q_1 q_2}{d^2}\right)$$
, for

$$\mathbf{Q}_1 = \frac{F_e d^2}{k_e q_2}$$

$$\mathbf{\Theta} \quad q_1 = \frac{k_c q_2}{F_s d^2}$$





Stained glass window project 2014

The purpose of this project is to use linear equations to design a stained glass window. You will include lines with zero, undefined, positive and negative slopes. The skills of graphing and writing linear equations will be used to create your stained glass window. For examples of previous students work, visit this website: http://goo.gl/MCxdlo.

Procedure:

- 1. Start with a grid piece of graph paper (attached) with the x and y axes in the center of the paper.
- 2. Create your stained glass window by drawing 5 horizontal lines, 5 vertical lines, 5 lines with positive slope, and 5 lines with negative slope.
- 3. Fill out the table and determine the equation (in slope-intercept form) for each line graphed on the tables paper.
- Example: My line goes through the points (0,-3) (1,2), and (2,7)
- 4. Make sure your lines extend all the way to the ends of your graph paper. Lightly label each line with numbers corresponding to the numbers on your tables.
- 5. Now go in and color **each** section. Be careful that the equations of the lines are still visible (go over them in a dark marker). Use colored pencils, markers, paint, glitter, colored paper, etc., to make your stained glass window unique and beautiful.
- 6. Mount your stained glass window on the colored piece of paper provided.
- 7. Attach your tables and equations to your final project.
- 8. BONUS: In addition to your 20 lines, use at least 5 quadratic equations. You must also write their equations (in standard form) on a separate sheet of paper and attach them to your final project.

Due Dates:

Equations (in slope intercept form) & Draft:

Wednesday, May 21st (Beginning of class)

Final Project (due at the end of class):

Friday, May 23rd

STAINED GLASS WINDOW PROJECT Scoring Guide

This	proi	ect	is	worth	100	points
11113	PIOI	ect		WULLI	100	pome

20 points for 5 horizontal lines and their equations	/20
20 points for 5 vertical lines and their equations	/20
20 points for 5 negative slope lines and their equations	/20
20 points for 5 positive slope lines and their equations	/20
10 points for meeting the deadlines	/10
10 points for creativity, neatness and uniqueness	/10
BONUS: 15 points for 5 quadratic equations	/15

Total: _____/100

Your entire (completed HW 6.5 is due by the end of class. While you work I will call you up one by one to return your calculator. Bring your index card. There will be a class set of calculators to use in class and on your final exam.

If you do not have your school calculator today, your name will be on the hold list until you return your calculator, bring a new TI-83 or TI-84 or go to the library and pay \$120 (bring me the receipt). If your name is on the hold list, you will not receive your report card or be able to register for classes in the fall.