UNIT 7 Solve Linear Inequalities

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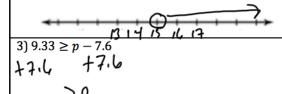
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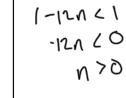
	Skillz Review (1 pt each)	
Graph the line.	Evaluate.	Solve.
1)_y = -4	2) $a^2 - b^5$; when $a = -5$ and $b = -1$	3) 5 - 4(1 + 8r) = -127
	$(-i)_{x} - (-i)_{x}$	5-4-325 =-129
	25 -(-1)	5-4-325=-127
	25+1	-1
4 -3 -4 -3 -2 -3 1 2 3 4 5 6 7	(26)	-325 = - h.P
3		(r=4)
4) $y = \frac{3}{2}x + 3$	5) $-v^3 - 2v^2$; when $v = 3$	6) $-8k + 1 = 4 - 8k$
1	-(3) -2(3)	48K 48K
1	-(3) -2(3)2 - (27) - 2(9)	1 - 4
7		No Sol,
	-27 -18	100 30
	-45	
<u>V</u>		

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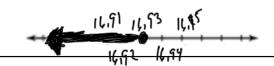
$$\frac{2)p-1 \ge -16}{1}$$

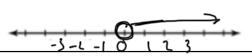
$$\frac{1}{1}$$





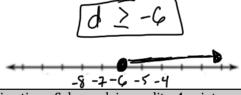
4) 1-5n-7n < 1





$$5) -3d + 7(-7 - 4d) \le 137$$

 $-3d + -49 - 28d \le 137$
 $-31d -49 \le 137$
 $-31d \le 186$
 $d \ge -6$



Directions: Translate the verbal phrase into an inequality. Then solve the inequality. 5 points.

6) The sum of 5w and 7 is less than the sum of wand 7.

Directions: Solve each inequality. 4 points each

8) n+2 < -6+5n

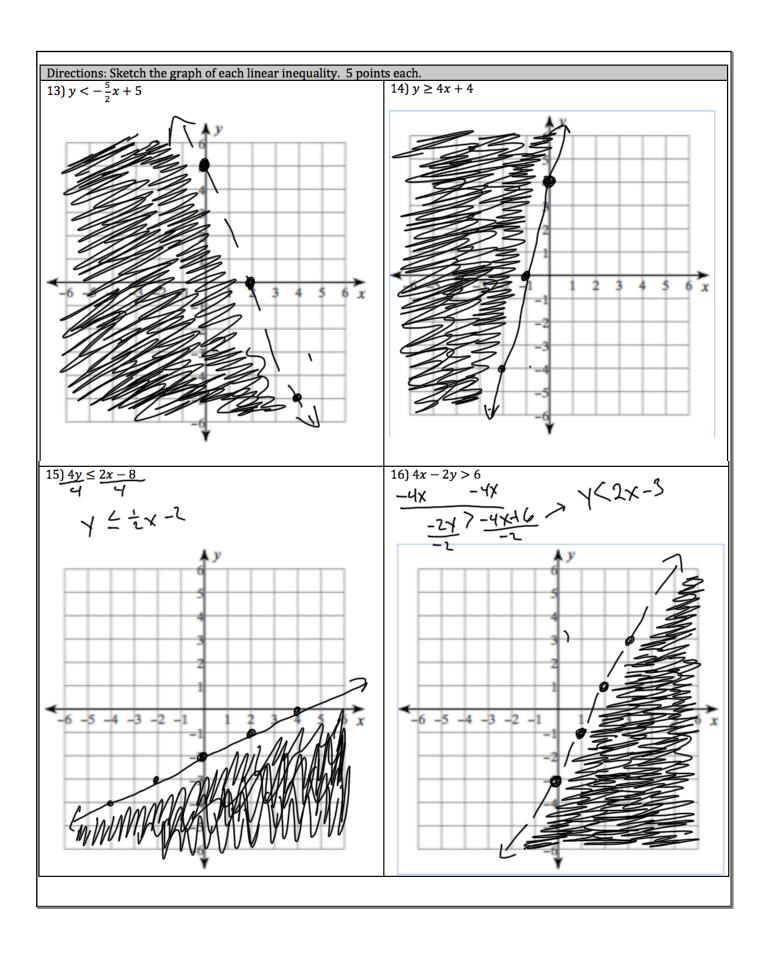
Directions: Solve each equation. 4 points each.

9)
$$(n-4)=11$$
 $N-4=11$
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10) $\left| \frac{x}{9} \right| = 4$

$$\frac{\sqrt{3}=-9}{\sqrt{x}=-36}$$

12) $2 + 6 \left| \frac{b}{10} \right| = 8$

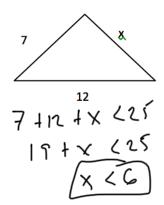


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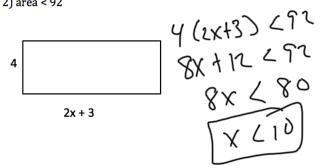
Applications

2 POINTS FOR EACH PART!

1) perimeter < 25



2) area < 92



3) Mr. Brust is speed eating spring rolls. He's eaten 8 and continues to eat 4.5 every minute. He needs to eat no less than 44 to tie Mr. Bean's record.

a) Write an inequality for the above situation.

b) Solve your inequality.

- 4) Mr. Kelly has 33 marbles. Sully bets him that he can't say the alphabet backwards. If Mr. Kelly wins he gets 13 more marbles from Sully. If he loses he has to give 13 marbles to Sully.
 - a) Write an absolute value equation for the above situation.

$$|x-33|=13$$

b) Solve your equation.

a) Write an inequality with x representing the number of large DR. PEPPER's and y representing the number of regurlar DR. PEPPER's that Mr. Bean can buy.

R's that Mr. Bean can buy. $3 \times 7 \leq 3$

b) Would he be able to buy 18 large and 20 regular DR. PEPPER's?

and 20 regular DR. PEPPER's?

3(18) + 20 <u>6</u> 63

54 + 20 <u>6</u> 63

74 <u>6</u> 63

would Mr. Bean be able to be

c) How many regular DR. PEPPER's would Mr. Bean be able to buy if he bought 13 large Dr. Peppers?

3(13) + y < 63 4 < 24 Resslar Or Peppus

d) Graph the inequality from A.

3x+ y < 63 xxx < 43 x < 21 x < 21 x < 21 x < 21

