Key			
	Name:	ノ Perio	d:
:	QCA#3 PreAP Review Day 2		d:
	Simplifying Expressions:		
A	3 (X+S)=3X +7X	2. Simplify: X(2X+8)=2X <sup>2</sup> +8X -4(2x+8)=-8x-32	3. Simplify: $9000000000000000000000000000000000000$
doub	(3x-4)(x+3)	(x-4)(2x+8) 2x <sup>2</sup> +8x-8x-32 CLT	$\frac{6h p}{12h^5 p^{-2}} = \frac{2h}{2h}$
Ollo	3x2+9x-4x-12 CLT	$2x^2-32$	hystell = 1
# 	Standard Form: 4. Given $4x-2y=12$ , find $4y$ .	solve for 'y 's cale equation	$p^{1-(-2)} = p^3$
	4. Given $4x - 2y = 12$ , find $4y$ .		
- :	1) 2y=4x-12 2) 2(2y)=2(4x-12)	-> 4y=18X-2	
	E Civan 2v = v = /L tind 6.0		
	1) y=3x-4 2) 6(y) = 6(3x-4) 7	y = 113 × 0 1	$-\frac{3}{2} h = \frac{3}{2}$
	C C	31 /Y = 40 = 8 111	b) $3x + 4y = 20$ $M = \frac{3}{4}$ $b = \frac{2}{5}$
	m=====================================	= = = b====	14= 4x+5/
.:	Geometric Applications:		
· £	7. The width of a rectangle is 10 cm	ess than the length. If the are ngle. Do Not Solve.	ea is 71 square cm. Write an equation
	to represent the area of the rectal $Q = Q - Q - Q$	A-10-2	1-1 12101
•	8. The length of a rectangle is $(3x-4)$		
e.	the situation if the area of the rec $A = 200$	tangle is 118 square feet. Do	Not Solve.
	Domain and Range:	118=6	
	9. What is the range of the function	f(x) = -2x + 10 when the doma	18 12 10 6 in is {-4, -1, 0, 2}?
	R; { 6,10,1	2,183	
	10. What is the range of the function	$f(x) = 3x^2 + 4 \text{ when the doma}$	n is {-3, -2,0, 4}
اِ	ER: {4,16,3	1,523 ~ 4	sak up in table

## Solutions of Inequalities

11. Jessie bought items for his pool party. He purchased x bags of chips at \$3.50 each and y liters of soda at \$2 each. He had less than \$30 to spend. What is a reasonable number of bags of chips and liters of soda that Jessie purchased? 3,50X+2,4430



a. (6,6)

(b.)(5,5)

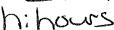
c. (7,5)

d. (4,8)

27.50 (30

34.56230

12. An automobile repair shop charges a service fee of \$50 plus \$20 per hour for the mechanic's time. A customer receives an estimate of (at least \$150) for repairing his car. What is the minimum amount of hours the repair shop is estimating it will take?



## Systems of Equations:

13. Match the systems to their solution

$$\int_{a.} \begin{cases}
x+3y=8 & (-10)+3(-29)=-97 \\
x-y=12 & (11)-(-1)=12xy
\end{cases}$$

c. 
$$\begin{cases} 2x - y = 9 & 2(-10) - (-29) = 9 \\ -3x + y = 1 \end{cases}$$

$$= 3(-10) + (-29) = 1$$

14. Write the system that could be used to compare the following t-shirt companies:

\*T-Right costs \$40 for the first 10 shirts and \$2.50 for each extra shirt \*Shirts-R-Us costs \$60 for the first 10 and \$1.50 for each extra shirt

T-right: C = 40+2.50(t-10) \* these 10 pd sus

Shirts-R.US: C=60+1.50(t-10)

## **Evaluate Functions**

If  $f(x) = \frac{x+4}{3}$  and  $g(x) = 2x^2 - 7$ , find each value:

$$(2(0)^{2})+(\frac{3}{(2+4)})\rightarrow (7)+(2)$$