

Name: \_\_\_\_\_

Key

Period: \_\_\_\_\_

A) solve for m

$$\frac{k}{p} = \frac{mp}{p}$$

$$m = \frac{k}{p}$$

B) simplify

$$3(2x-1) - 2(x-4)$$

$$6x - 3 - 2x + 8$$

$$4x + 5$$

C) solve for k

$$y = \frac{kx}{x}$$

$$k = \frac{y}{x}$$

D) slope of  $-4x + 6y = 10$ find m in  $y = mx + b$ 

$$6y = \frac{4}{6}x + \frac{10}{6}$$

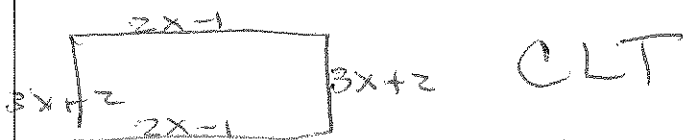
$$y = \frac{2}{3}x + \frac{5}{3}$$

$$m = \frac{2}{3}$$

$$m = \frac{-A}{B}$$

$$m = \frac{-(-4)}{6}$$

E) Perimeter expression

l is  $2x - 1$ w is  $3x + 2$ 

$$10x + 2$$

F) Range of  $f(x) = -2x + 6$ Domain is  $-3 < x \leq 9$ use fss or  $y = 2^{\text{nd}}$  table  
look up values

$$\text{MIN } (-3, 12)$$

$$\text{MAX } (9, -12)$$

$$\text{Range } -12 \leq y < 12$$

G) Simplify  
 $5(-x+1) - (x+3)$   
 $-5x+5-x-3$   
 $-6x+2$

H) Range of  $f(x) = 3x^2 + 4$   
 domain is  $\{-3, -2, 0, 4\}$   
31 16 4 52  
 $\{4, 16, 31, 52\}$

I) y-intercept for graph  
 $3x + 5y = 15$   
 Convert to  $y = mx + b$   
 or  
 $b = \frac{c}{B}$      $A=3$   $B=5$   $C=15$   
 $b = \frac{15}{5}$   
 $b = 3$   
 $(0, 3)$

J) Simplify  
 $-4(3x-1) - 3(x-2)$   
 $-12x+4-3x+6$   
 $-15x+10$

K) Equation of line  
 through  $(-3, -5)$  &  $(1, 7)$   

x	y
-3	-5
1	7

 $m = \frac{12}{4} = 3$   
 $b = 4$   
 $y = 3x + 4$

L) Range of  $f(x) = 3x - 4$   
 domain is  $-5 \leq x < 8$   
 $-19$                        $20$   
 $-5 \leq x < 8$   
 $f$   $3(-5) - 4$   
 $3$   $-19$   
 $5$   
 $-19 \leq y < 20$

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M) Simplify

$$6(2x+1) - (x-1)$$

$$12x + 6 + x + 1$$

$$\boxed{13x + 7}$$

N) Equation of a line  
through  $(-4, 8)$  &  $(-2, 0)$ 

$$y = ax + b$$

$$a = -4$$

$$b = -8$$

$$\boxed{y = -4x - 8}$$

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