Warmup #2

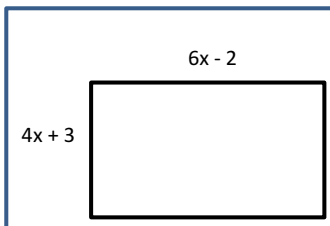
HW → name on it & turn in to front basket

Module 0.4 Polynomials
Relationships Between Quantities and Expressions

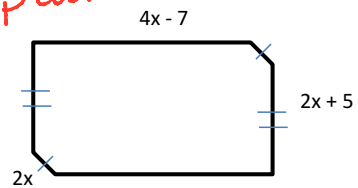
Name: _____

1. **Write an expression in simplest form to represent the perimeter of each figure below.**

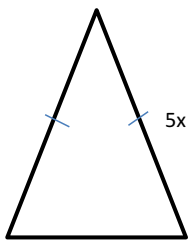
add up all sides



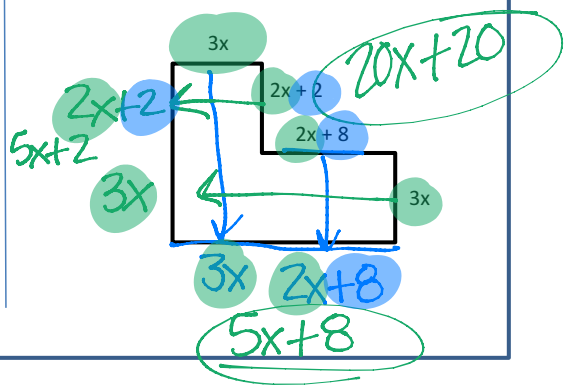
$20x+2$



$16x-4$

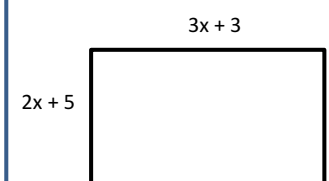


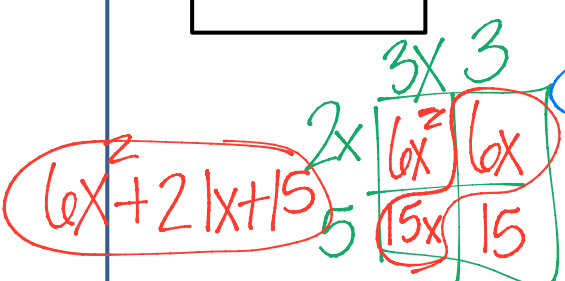
$13x-6$

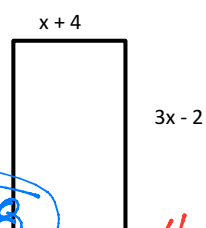


2. **Write an expression in simplest form to represent the area of each figure below.**

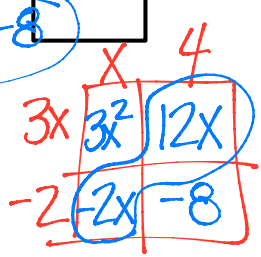
$l \cdot w$





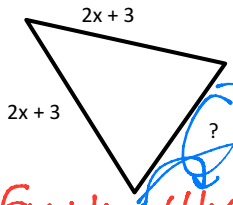


$3x^2+10x-8$



3. **Find the missing side length using the given perimeter.**

P = 5x + 10



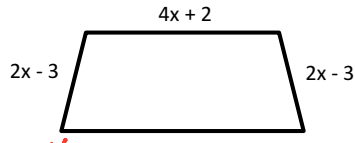
$4x+6$

$5x+10-(4x+6)$

$5x+10-4x-6$

$x+4$

P = 12x + 4

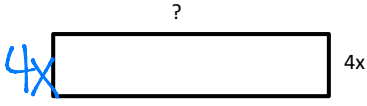


$8x-4$

$12x+4-(8x-4)$

$12x+4-8x+4=4x+8$

P = 48x + 8

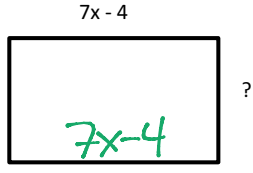


$8x$ $48x+8-8x$

$\frac{40x+8}{2} \rightarrow \frac{}{2}$ 2 sides

$20x+4$

P = 24x - 4



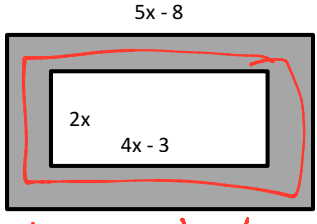
$14x-8$

$24x-4-(14x-8)$

$24x-4-14x+8$

$\frac{10x+4}{2} \quad \frac{}{2}$ $5x+2$

4. Find the area of the shaded region.



Shady

$5x-8$

$2x$ | $10x^2$ | $-16x$

6 | $30x$ | -48

$10x^2+14x-48$

unshady

$2x(4x-3)$

$8x^2-6x$

Shady - unshady

$10x^2+14x-48-(8x^2-6x)$

$2x^2+20x-48$

Name

$2x(x+1)(3x-7)$

Combine

$4x-12y+3(x+y)-40$

$+12x-10(x-4y)$

Perimeter of equilateral $\triangle = 12x+8$

base $= 6x-12$

Find the legs