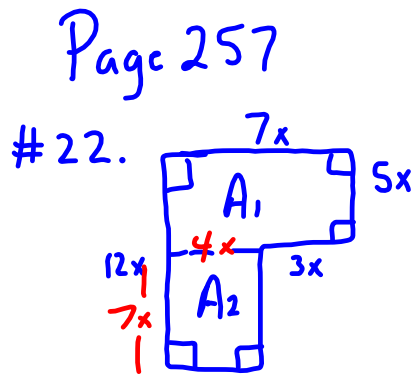


## Homework problems?



$$\begin{aligned} A_1 &= l \times w \\ &= (5x)(7x) \\ &= 35x^2 \end{aligned}$$

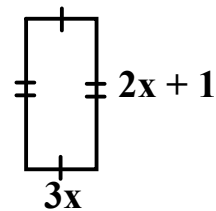
$$\begin{aligned} A_2 &= 4x(7x) \\ &= 28x^2 \end{aligned}$$

$$\begin{aligned} A_{\text{TOTAL}} &= 35x^2 + 28x^2 \\ &= 63x^2 \end{aligned}$$

## PPRACTICE: PERIMETER, AREA AND SUBSTITUTION WITH POLYNOMIALS

Using the shape to the right, answer the following:

- What is the **SIMPLIFIED** polynomial that represents the **PERIMETER** of this shape?
- What is the **perimeter** of this shape when  $x = 5$ ?
- What is the **SIMPLIFIED** polynomial that represents the **AREA** of this shape?
- What is the **area** of this shape when  $x = 10$ ?



$$\begin{aligned} \text{a) } P &= s_1 + s_2 + s_3 + s_4 \\ &= 2x + 1 + 3x + 2x + 1 + 3x \\ &= 10x + 2 \end{aligned}$$

$$\begin{aligned} \text{b) } 10x + 2 &= 10(5) + 2 \\ &= 50 + 2 \\ &= 52 \end{aligned}$$

$$\begin{aligned} \text{c) } A &= l \times w \\ &= 3x(2x + 1) \\ &= 6x^2 + 3x \end{aligned}$$

$$\begin{aligned} \text{d) } 6x^2 + 3x &= 6(10)^2 + 3(10) \\ &= 6(100) + 30 \\ &= 600 + 30 \\ &= 630 \end{aligned}$$

**UNIT 4 TEST PREPARATION -  
POLYNOMIALS:****MMS9****Page 258: Study Guide****Page 259: #1 TO #7, #9 and #10****Page 260: #12, #15, #16, #18 and #19****Page 261: #22 TO #29****Page 262: Practice Test**

$$(3y^2) \times (4y^5) = 12y^7 \quad (x^1)(x^1) = x^2$$

$$(2m^4) \times (10m^6) = 20m^{10}$$

$$(5a^3) \times (5a^2) = 25a^5$$

$$(8p^3) \times (9p^4) = 72p^7$$

$$24p^8 \div 3p^2 = 8p^6$$

$$18f^{10} \div 6f^7 = 3f^3$$

$$40g^{15} \div 10g^5 = 4g^{10} \longrightarrow \frac{g^{15}}{g^5} = g^{10}$$

$$100h^{12} \div 50h^3 = 2h^9$$

Next Day Chapter 5 Test