## HW 1-2 Solving with Area & Perimeter

Unit 1

#1-6: Solve each equation.

1. 
$$4x - 21 = 15x - 4x$$

2. 
$$-\frac{z}{4} + 9 = 11$$

3. 
$$-2(4r+6) = \frac{2}{3}(12r+18)$$

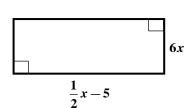
4. 
$$5(x+4)+1=4x-12$$

$$5. \ \frac{3m+4}{8} = \frac{3m+7}{5}$$

**6.** 
$$\frac{2x+7}{4} - 8 = -3$$

#7-9: Set up an expression that would calculate the area/perimeter. Be sure to simplify your answer.

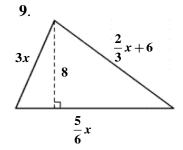
7.



Perimeter =

 $\begin{array}{c|c}
8. & 7x \\
2x-1 & 2x-1 \\
2x-1 & 2x-1
\end{array}$ 

Perimeter =



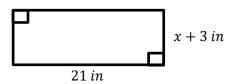
Perimeter =

Area =

Area =

## #10-13: Find the value of x in each question.

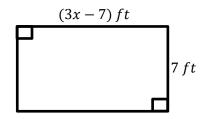
**10**. **[** 



Perimeter = 56 in

 $x = \underline{\hspace{1cm}}$ 

11.



Area =  $56 ft^2$ 

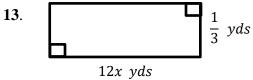
*x* = \_\_\_\_\_

**12**.



Perimeter = 20x *units* 

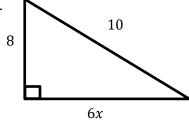
 $x = \underline{\hspace{1cm}}$ 



Area =  $24 yds^2$ 

x =\_\_\_\_

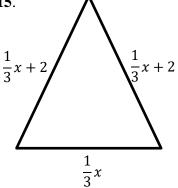
**14**.



Area =  $48 units^2$ 

 $x = \underline{\hspace{1cm}}$ 

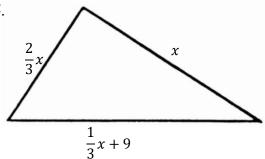
**15**.



Perimeter = 7 *units* 

*x* = \_\_\_\_\_

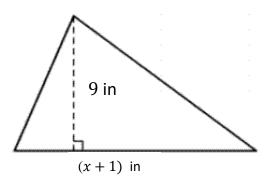
**15**.



Perimeter = 27 *units* 

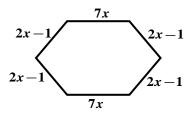
$$x = \underline{\hspace{1cm}}$$

**16**.

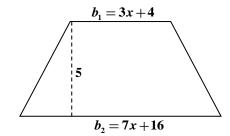


Area = 
$$63 in^2$$

**17**.



18.



Area of Trapezoid =  $\frac{b_1 + b_2}{2} \cdot h$ 

Area = 
$$100 \, units^2$$

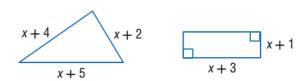
$$x =$$

Perimeter = 62 *units* 

$$x = \underline{\hspace{1cm}}$$

## #19-20: Write an equation to find the value of x so that each pair of polygons has the same perimeter. Then solve.

**19**.



**20**.

