

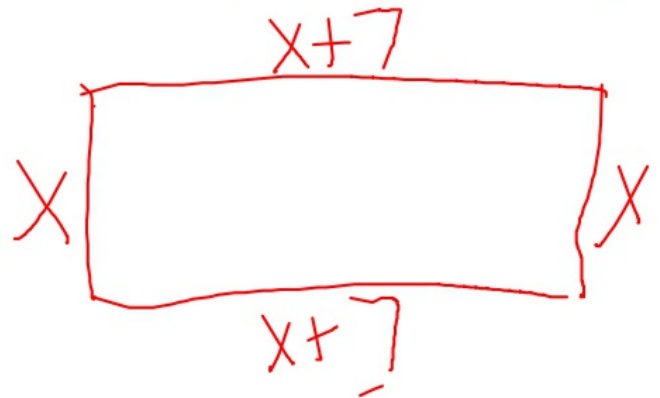
Bellwork: Algebra 1

1. Write down your homework for the night.
2. You need your composition book and a calculator.
3. On your bellwork page for THURSDAY, answer the following:

The length of a rectangle is 7 inches more than its width. If the perimeter of the rectangle is 66 inches, find its dimensions.

$$W - X$$

$$l - X + 7$$



$$4X + 14 = 66$$

$$\begin{array}{r} -14 \quad -14 \\ \hline \end{array}$$

$$4X = 52$$



$$\boxed{13 \text{ in}, 20 \text{ in}}$$

Set 2: *Perimeter of a Rectangle*

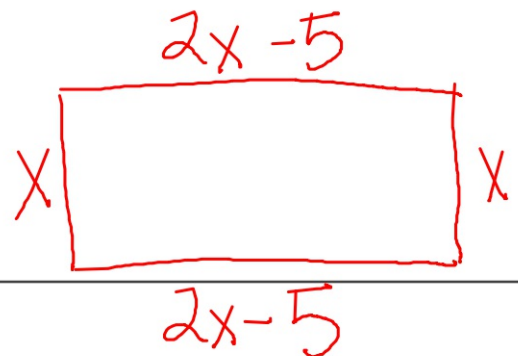
9. The length of a rectangle is six inches more than its width. If the perimeter of the rectangle is 24 inches, find its dimensions.
10. The length of a rectangle is five inches more than four times its width. If the perimeter of the rectangle is 90 inches, find its dimensions.
11. The length of a rectangle is three centimeters less than twice its width. If the perimeter of the rectangle is 18 centimeters, find its dimensions.

12. The length of a rectangle is 7 inches more than its width. If the perimeter of the rectangle is 66 inches, find its dimensions.

13. The length of a rectangle is five less than twice its width. If the perimeter of the rectangle is 56 inches, find its dimensions.

$$w = x$$

$$l = 2x - 5$$



$$\begin{aligned} 6x - 10 &= 56 \\ +10 &+10 \\ \hline 6x &= 66 \end{aligned}$$

lin, lin

Set 3: Consecutive Numbers

What does consecutive mean? #s one after another

EXAMPLES	Consecutive Numbers	1, 2, 3, 4, 5... $x, x+1, x+2, x+3, \dots$
	Consecutive EVEN Numbers	2, 4, 6, 8... $x, x+2, x+4, x+6, \dots$
	Consecutive ODD Numbers	1, 3, 5, 7, 9... $x, x+2, x+4, x+6, \dots$

14. The sum of two consecutive numbers is 123. Find the numbers.

$$\begin{array}{l}
 1 - x \\
 2 - x+1
 \end{array}$$

$$\begin{array}{r}
 x + x + 1 = 123 \\
 2x + 1 = 123 \\
 \underline{-1 \quad -1} \\
 2x = 122
 \end{array}$$

$$\boxed{61, 62}$$

15. If the sum of two consecutive numbers is 85, find the numbers.

$$\boxed{42, 43}$$

16. Find two consecutive **even** numbers whose sum is 54.

$$\boxed{26, 28}$$

17. The sum of two consecutive **odd** numbers is 128. Find the numbers.

18. The sum of three consecutive **even** numbers is 138. Find the numbers.

19. The sum of three consecutive **odd** numbers is 57. What are the three numbers?

$$\begin{aligned}1 - x \\ 2 - x + 2 \\ 3 - x + 4\end{aligned}$$

$$\begin{aligned}3x + 6 &= 57 \\ -6 \quad -6 \\ \hline 3x &= 51\end{aligned}$$

$$\begin{array}{c} \downarrow \\ \sqrt{17, 19, 21} \end{array}$$

20. The sum of three consecutive numbers is 33 more than the smallest of the numbers. Find the numbers.

$$1 - x$$

$$2 - x + 1$$

$$3 - x + 2$$

$$3x + 3 = x + 33$$

21. In cross-country, the team score is determined by the place each individual runner finishes. (For example 1st place is one point, 16th place is 16 points, etc.) In their latest meet, the boys' cross-country team scored 55 points. If there were five runners on the team and each runner finished one after another, what places did they each come in?

$$x$$

$$x + 1$$

$$x + 2$$

$$x + 3$$

$$x + 4$$

$$5x + 10 = 55$$

$$\begin{array}{r} -10 \quad -10 \\ \hline \end{array}$$

$$\frac{5x}{5} = \frac{45}{5}$$



9th, 10th, 11th, 12th, 13th