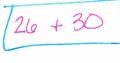
Word Problems Worksheet

Name: _	Key	
	1	

Example 1: The second of two numbers is four more than the first. The sum of the numbers is 56. Find the numbers.

$$x + x + 4 = 56$$
 $2x + 4 = 56$
 $-4 - 4$
 $y = 26 + 4$
 $y = 30$
 $2x = 62$
 $x = 26$



Example 2: Gym A charges a monthly fee of \$20 plus \$2 per time you go to the gym. Gym B only charges \$4 per time you go to the gym. After how many trips to the gym would it cost the same for both? What would that cost be?

$$4x = 20 + 2x$$
 $-2x = -2x$
 $1x = 20$
 $2 = 2$
 $2 = 2$



1. The sum of two numbers is 90. Their difference is 18. Find the numbers.

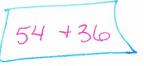
$$x+y=90$$

 $x-y=18$
 $2x=108$
 $2 = \frac{108}{2}$

$$X = 54$$

$$54 + 4 = 90$$

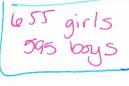
$$-54 + 4 = 36$$



2. The number of girls at Sky High School is 60 greater than the number of boys. If there are 1250 students all together, how many girls and boys are there? X= boys

$$y = x + 60$$

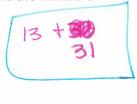
 $x + y = 1250$



3. The second of two numbers is 5 more than twice the first. The sum of the numbers is 44. Find the numbers.

$$x + 2x + 5 = 44$$
 $3x + 5 = 44$
 $3x = 39$
 $3x = 39$
 $3x = 13$
 $3x = 31$

The of pin is 20 less than these times the number of solar



4. The number of calories in a piece of pie is 20 less than three times the number of calories in a scoop of ice cream. The pie and ice cream together have 500 calories. How many calories are in each?

$$y = pie$$
 $y = pie$
 $y = 370$
 $y = 300$
 $y = 370$
 $y = 370$
 $y = 370$

5. Sylvia sold twice as many tickets as Frank. The sold 54 tickets in all. How many did each sell?

6. Adult tickets to a play cost \$5 and student tickets cost \$2. In all 720 tickets were sold for a total of \$2640. How many adult and student tickets were sold?

X= Adult

$$\frac{5x + 2y = 2640}{-2x - 2y = -1440}$$

$$\frac{3x = \frac{1200}{3} \times -400}{3}$$

y= Student

7. One number is 5 more than half of another number. The sum of the numbers is 47. Find the numbers.

8. The length of a rectangle exceeds its width by 3 meters. The perimeter is 58 meters. Find the dimensions.

$$2x+2x+6=58$$

$$2x + 2(x+3) = 58$$
 $y = 13t3$ | Length = 16 m | width = 13 m

9. Two cell phone companies offer texting plans. Company A charges \$5 plus \$0.25 per text. Company B charges \$10 plus \$0.15 per text. After how many texts will it cost the same for Company A and Company B? What will that cost be?

$$y = .25 \times 15$$

 $y = .15 \times 10$

Level 4

10. A grocer wants to mix together some cashews costing \$8 per kilogram with som Brazil nuts costing \$10 per kilogram. The grocer wants to sell 12 kilograms of the mixture for \$8.50 per kilogram. How many kilograms of cashews and Brazil nuts are needed?

4 Kg cashews 3 Kg Brazil nuts