

## Simultaneous Equation Word Problems Worksheet # 129 Math 098

Using 2 Variables, Solve the Following:

1. The sum of two numbers is 37 and their difference is 13. What are the numbers?

2. In a class of 33 students there are 3 more boys than girls. How many boys and girls are in the class?

Let  $x$  = boys  
 $y$  = girls

3. We want to cut a 275 foot cable into two pieces in such a way that one piece is 60 feet longer than the other. How long should each piece be?

4. Joe has \$5.30 in dimes and quarters. If he has 32 coins, how many of each does he have?

Let  $x$  = dimes  
 $y$  = quarters

5. \$5,000 is invested in two banks, one giving 5% and one giving 8% per year. If the income (interest) from the investments is \$304, how much is invested at each rate?

Let  $x$  = amount at 5%  
 $y$  = amount at 8%

6. We want 100 gallons of milk with 4% fat. We mix 61% fat cream with 1% fat milk. How much of each should be used?

Let  $x$  = gallons cream  
 $y$  = gallons skim milk

**Worksheet # 129 Math 098**  
**ANSWERS**

1. 12 and 25
2.  $x = 18$  boys  
 $y = 15$  girls
3. 107.5 and 167.5
4.  $x = 18$  dimes  
 $y = 14$  quarters
5.  $x = \$3200$   
 $y = \$1800$
6.  $x = 5$  gal cream  
 $y = 95$  gal milk