AGE AND COIN PROBLEMS

1. Kevin is three times as old as Karen. In 6 years, he will be twice as old as she. How old are both now?
2. In ten years, Zachary will be half his father's age. If his father was 25 years old when he was born, how old is each now?
3. Becky's age is the sum of the ages of Ryan and Amy. Ryan is 2 years older than Amy, and Amy is one third as old as Becky. How old is each now?
4. Jill is 12 years older than Jack. In 8 years, she will be three times his age now. How old is Jack?
5. Juan is 2 years older than Sylvia. Four years ago Sylvia's age was five sixths of Juan's age. How old are both now?
6. Bart's age is one third of his mother's age. Seven years ago, his age was one fifth of hers. How old are both now?
7. Jack is 3 years older than Jill. Three years ago, Jill's age was four fifths of Jack's age. How old is each now?
8. Tom is two years older than Jerry. Next year, Tom will be one and a half times as old as Jerry. How old is each now?
9. Al's father is 45. He is 15 years older than twice Al's age. How old is Al?
10. Sammy's mother is 2 years more than 3 times as old as Sammy. Their combined age is 42. How old are Sammy's mother and Sammy?

1. Tony has 11 more nickels than quarters. How many coins does he have if the total value of his coins is $2.65?
2. Jordan has a total of one hundred thirty nickels, dimes and quarters. He has three and a half times as many nickels as dimes, and one-half as many quarters as dimes. How much money does he have?
3. Austin has nickels, dimes and quarters. He has a total of $17.65. He has eleven fewer quarters than nickels and six times as many dimes as quarters. How many of each coin does he have?
4. Cody has pennies, dimes and quarters. He has a total of $17.64. He has two times as many quarters as dimes and one-third as many dimes as pennies. How many of each coin does he have?
5. A bank contains 36 nickels, dimes, and quarters. There are 4 more dimes than quarters and twice as many nickels as quarters. How many of each coin are in the bank?
6. A collection of quarters and dimes is worth $6.75. The number of dimes is 4 less than three times the number of quarters. How many of each are there?
7. A collection of 102 nickels, dimes, and quarters is worth $13.60. There are 14 more nickels than dimes. How many quarters are there?
8. Two-thirds of the coins in a collection of quarters and dimes are quarters. The collection is worth $12.00. How many dimes are there?
9. A collection of 77 quarters and dimes is worth $12.50. How many quarters are there?
10. Craig has 38 quarters and dimes. If he had twice as many quarters, he would have $11.00. How many of each coin does he have?

AGE AND COIN PROBLEMS

AGE PROBLEMS:

- Remember to express things in a single variable….not multiple unknowns!
- Usually the problem can be broken up into two different time frames.
- When this is the case, use the FIRST time frame as the reference to the second time frame. For example, Jack is "x" years old now. In 10 years…would be expressed "x + 10"

COIN PROBLEMS

- Remember that there are 2 parts of a money problem…HOW MANY coins you have and HOW MUCH VALUE you have in coins.
- Create two different equations based on these concepts. First, create representations based on the NUMBER of coins you have.
- Then create an equation using the value of the coins TIMES the number of coins you have. Remember that 5¢ is expressed as 0.05 NOT 0.5, 10¢ is 0.10, etc.