

Celebrity Birthdays – Systems of Equations

By David Pleacher

Solve each system below. Then follow the instructions to determine the birthdays of the celebrities. You must show your work!

1.

$$\text{Barack Obama} = 2 \text{ Betty White}$$

$$\text{Barack Obama} = 8 \text{ Jay Leno} - 3$$

$$\text{Jay Leno} + \text{Barack Obama} + \text{Betty White} = 73$$

2.

$$2 \text{ Jennifer Aniston} - \text{Jay Leno} + \text{Brad Pitt} = 97$$

$$\text{Jennifer Aniston} + 3 \text{ Jay Leno} - 2 \text{ Brad Pitt} = -126$$

$$3 \text{ Jennifer Aniston} - 2 \text{ Jay Leno} + 4 \text{ Brad Pitt} = 344$$

3.

$$4 \text{  + 6 \text{  - 3 \text{  = -74$$

$$3 \text{  + 4 \text{  - 6 \text{  = -366$$

$$6 \text{  - 3 \text{  + 4 \text{  = 317$$

4.

$$\text{} - 2 \text{ } - 2 \text{ } = 3$$

$$2 \text{ } + 3 \text{ } + \text{} = 140$$

$$3 \text{ } - \text{} - 3 \text{ } = 91$$

5.

$$\text{} + \text{} + \text{} = 37$$

$$\text{} - \text{} + \text{} = 35$$

$$2 \text{ } + \text{} + \text{} = 38$$

6.

$$3 \text{ [Cruz]} + \text{ [Lindor]} - \text{ [Munoz]} = 15$$

$$\text{ [Cruz]} + \text{ [Lindor]} + 4 \text{ [Munoz]} = 108$$

$$9 \text{ [Cruz]} + 5 \text{ [Lindor]} + 10 \text{ [Munoz]} = 354$$

7.

$$\text{ [Michelle]} = 4 \text{ [Dion]} - 4 \text{ [Benjamin]}$$

$$\text{ [Dion]} = 2 \text{ [Dion]} + 8 \text{ [Benjamin]}$$

$$\text{ [Michelle]} - \text{ [Dion]} - \text{ [Dion]} - \text{ [Benjamin]} = 4$$

$$\text{ [Michelle]} + \text{ [Dion]} + \text{ [Dion]} + \text{ [Benjamin]} = 124$$

Now discover the birthdays of these famous people.

The Year contains only the last two digits of the year of that person's birth (that is, the person in that picture).

1. Barack Obama, Queen Elizabeth, and Louis Armstrong share their birthday with Jeff Gordon:



= Month = _____



= Day = _____



= Year = _____

2. Kim Basinger, Dwight Howard, and Philip Rivers share their birthday with Eli Whitney:



= Month = _____



= Day = _____



= Year = _____

3. Carrie Fisher, Ricky Rubio, and Kim Kardashian share the same birthday:



= Month = _____



= Day = _____



= Year = _____

4. Joe Lieberman, Eddie Murray, and Steve Jobs share their birthday with Winslow Homer:



= Month = _____



= Day = _____



= Year = _____

5. Betsy Ross, J. Edgar Hoover, and Paul Revere share their birthday with Barry Goldwater:



= Month = _____



= Day = _____



= Year = _____

6. Ernie banks, Nolan Ryan, and Jackie Robinson share their birthday with Justin Timberlake:



= Month = _____



= Day = _____



= Year = _____

7. Michelle Obama, Muhammad Ali, Dwayne Wade, and Ben Franklin share the same birthday:



= Month = _____



= Day = _____



= Year = _____



= Year = _____