3.
$$(1,1)$$
4. $(5,6)$
5. $(-9,-11)$
6. $(19,16)$
7. $(2,1)$

Word Problem Day!

Today we will go over the even problems for notes and your homework will be the odd problems:)

What kind of monkey can fly?

2. The difference between two numbers is 16. Five times the smaller is the same as 8 less than twice the larger. Find the numbers.

4. Two records and three tapes cost \$31. Three records and two tapes cost \$29. Find the cost of each record and each tape.

6. A group of students go out for lunch. If two have hamburgers and five have hot dogs, the bill will be \$8.00. If five have hamburgers and two have hot dogs, the bill will be \$9.50. What is the price of a hamburger?

rice of a hamburger?
$$X = horburgers$$

 $Y = horburgers$
 $Y = horburgers$

8. A shipment of TV sets, some weighing 30 kg each and the others weighing 50 kg each, has a total weight of 880 kg. If there are 20 TV sets all together, how many weigh 50 kg?

$$X = 30 \text{ Kg}$$

$$\boxed{Y \neq 50 \text{ Kg}}$$

$$30 \times + 50 \text{ Y} = 880$$

$$(-30) \times + \text{ Y} = 20 (-30)$$

$$30x + 50y = 880$$

 $-30y = -600$
 $30y = 280$
 $30y = 28$

2. Ms. Lynch has 21 coins in nickels and dimes. Their total value is \$1.65. How many of each

coing does she have?

$$(-.05)$$
 $n + d = 21(-.05)$
 $.05n + .10d = 1.65$
 $-.05n + .10d = 1.65$
 $.05d = .60$
 $.05 + .05$
 $d = 12 \text{ dimes}$
 $n + d = 21$
 $n + 12 = 21$
 $n + 13 = 21$
 $n + 13 = 21$

$$n + d = 31$$
 $n + 12 = 31$
 $n = 9$

4. The total value of the \$1 bills and \$5 bills in a cash box is \$124. There are 8 more \$5 bills than \$1 bills. How many of each are there?

6. Joe Lick bought some 20-cent and 25-cent stamps. He bought 32 stamps in all, and paid \$7.40 for them. How many stamps of each kind did he buy?

$$\gamma = 354$$
 Stamps
 $(-.20)$ $\times + \gamma = 32$ $(-.20)$ $<$
 $.20 \times + .25 \gamma = 7.40$

$$7.20x - .30y = -6.40$$

$$.20x + .35y = 7.40$$

$$.05y = 1.00$$

$$.05 - .05$$

$$y = 20 \rightarrow 254 \text{ stamps}$$

$$x + y = 32$$

$$x + 20 = 32$$

$$-20 - 20$$

$$x = 12 \rightarrow 204 \text{ stamps}$$

8. Romeo bought a mixture of 20-cent, 35-cent, and 50-cent valentines. The number of 20-cent valentines was 1 more than twice the number of 35-cent valentines, and the number of 50-cent valentines was 2 less than the number of 35-cent ones. If he spent \$4.20 all together, how many valentines of each kind did he buy?

Homework: Complete the odd problems on both "What kind of Monkey can fly?" and

"How did the doe win the bid animal race?"