1. May bought an MP3 player for \$105. She paid for it with \$5 bills and \$20 bills. If she used 6 more \$5 bills than \$20 bills, how many were there of each?

det "+" be the number of \$20 bills \$5 \$20 She used 3 \$20 bills and 9 \$5 hills t t+6 number value 5(++6) / 20t 5(t+6) + 20t = 105 $5 \pm 30 \pm 201 = 105$ 25t+30 = 10525+= 105-30 25 + = 7525 25 1-=31

2. Jeff has \$4.05 made up of nickels and dimes. If he has seven times as many nickels as dimes, how many dimes does he have? 54.05 = 4054

het "d" be the number of dimes.

$$\frac{dimes | nickels}{d + 7d}$$

3. Ron has \$21.90 made up of dimes and quarters. If there are 117 coins in all, how many quarters are there?

$$det "q" represent the number of
number dimes quorters $$21.90 = 2190 $
number dimes quorters
of 117-9 9
value 10(117-9) 259
coins $$9 = 2190
10(117-9) + 259 = 2190
170-109 + 259 = 2190
1170+159 = 2190
159 = 2190-1170
159 = 2190-1170
159 = 1020
159 = 1020$$

4. Heather has \$300 made up of \$5 and \$10 bills. If there are 3 more \$10 bills than \$5 bills, how many \$5 bills does she have?

	det	"f" represent	the nu	mber of	4				
	1 \$ 5	\$10							
number	f	f+3							
value	5-f	10(f+3)			: Heather	has	(8	\$5	داانه
	5f +	$\widehat{10(f+3)} = 305$	>						
	5 f	+ 10f + 30 = 30:	>						
		15f = 300	0-30						
		$\frac{15F}{15} = \frac{2F}{15}$,	/					
F	A 1.	f = 18		1 1'	1 . 1 1 7		1	6.4	

5. A parking meter contained 78 coins made up on dimes and nickels. The total value of the coins was \$5.20. How many dimes did it contain?

Yst "q"	be the nu	mber of	dimes	\$5.20=	520
dimes	nickels				
d	78-d				
109	5 (78-d)			d = 26	
102 + 5	(78-d) =	520			96 1
109+	390-52 = 5	20		o o litere re	to dimes.
	390 + 5d = 9	120			
	52 -	520-344			
	54 -	50 -	-		
	det "d" dimes d lod lod + 5 lod t	het "d" be the nu dimes nickels d 78-d lod $5(78-d)$ lod $5(78-d) = 5$ lod $390-5d = 5$ 390+5d = 9 5d = 10 5d = 10	het "d" be the number of dimes nickels d 78-d lod $5(78-d)$ lod $5(78-d) = 520$ lod $390-5d = 520$ 390+5d = 520 5d = 520-394 $\frac{54}{5} = \frac{130}{5}$	het "d" be the number of dimes dimes nickels d 78-d lod $5(78-d)$ lod $5(78-d) = 520$ lod $390-5d = 520$ 390+5d = 520 5d = 520-390 $\frac{54}{5} = \frac{130}{5}$	het "d" be the number of dimes $55.20 = 6$ dimes nickels d 78-d lod $5(78-d)$ d = 26 lod + 5(78-d) = 520 lod + 390-5d = 520 390+5d = 520 5d = 520-390 $\frac{54}{5} = \frac{130}{5}$

6. In a spy movie, agent 007 sits at the casino table with a pile of chips worth \$30000. There is an equal amount of \$100 and \$50 chips. Find the total number of chips.

Let "f" be the number of \$50 chips

$$\frac{150}{100} + \frac{1}{100}$$
number f f
Value 50f 100f $\rightarrow 30,000$
 $50f + 100f = 30000$
 $\frac{150f}{150} + \frac{30000}{150}$
 $\frac{150f}{150} + \frac{30000}{150}$

7. Frank collects baseball cards. He has the same number of \$5 cards as \$2 cards, and their total value is \$252. How many of each does he have?

det "f" be the number of \$5 cards $\frac{122}{92} + \frac{15}{7}$ number $\frac{1}{7} + \frac{1}{7}$ value 2f + 5f = 252 $\frac{7f}{7} - \frac{252}{7}$ f = 36 $\therefore \text{ There is 36 of each}$