1. What is the solution to the system: $\left\{\begin{array}{l}2 x+3 y=11 \\ 4 x-5 y=11\end{array}\right.$
a) $(4,0)$
b) $(1,4)$
C) $(4,1)$
d) $(-1,4)-11$
$y=1$ plug

$$
\begin{gathered}
2 x+3(1)=11 \\
2 x+3=11 \\
2 x=8 \\
x=8
\end{gathered}
$$

2. The math club sells candy bars and drinks during football games.


3 Two times Antonio's age plus three times Sarah's age equals 34. Sarah's age is also five times Antonio's age. How old is Sarah?

$$
\begin{aligned}
& 2 a+3 s=34, \\
& s=(5 a, 2 a+3(5 a)=34, \\
& 2 a+15 a=34
\end{aligned}, \begin{aligned}
& 17 a=34 \\
& a=2)^{\text {login }}
\end{aligned}
$$

4. A sum of money amounting too $\$ 3.70$ consists of dimes and quarters. There are 19 coins in all, how years old mequarters?
a) 12 quarters
b) 9 quarters
c) 7 quarters
d) 17 quarters

$$
\begin{array}{cc}
10 x+25 y=370 & 10(19-y)+25 y=370 \\
x+y=19 & 190-10 y+25 y=370 \\
x=19-y & 190+15 y=370
\end{array}
$$

5. 

Only chocolate and vanilla ice cream cones are sold at an ice cream store. In one day, the number of chocolate cones sold was 1 more than 4 times the number of vanilla cones sold. A total of 121 cones were sold that day.

Let $c=$ the number of chocolate cones sold.
Let $v=$ the number of vanilla cones sold.

- Write equations to determine the number of chocolate cones sold that day.
- Use the equations to determine the number of chocolate cones sold that day.

Show your work using words, numbers, andor diagrams.


