

Ioka

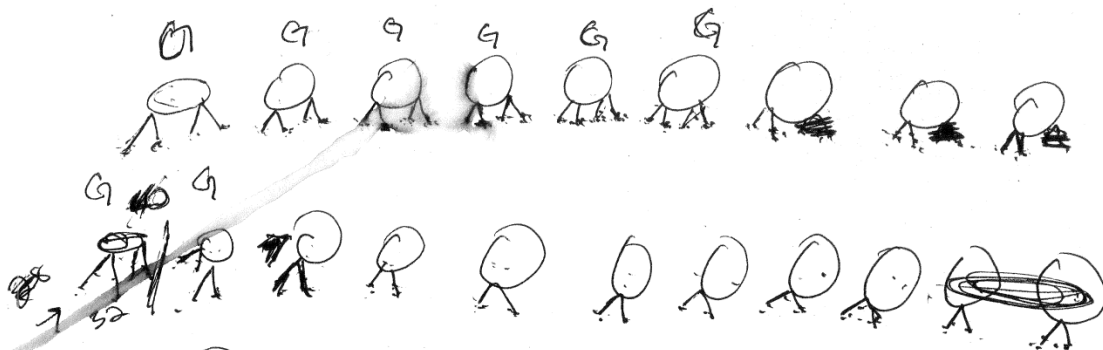
A.

6. Farmer Montague raises chickens and goats. She is not sure how many she has of each animal, but she does know she has 22 animals all together. She also knows that all together, her animals have 56 feet. How many of each type of animal does Farmer Montague have?

Ioka Thompson

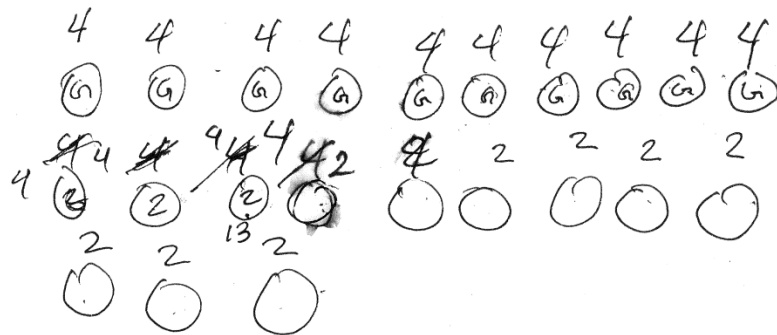
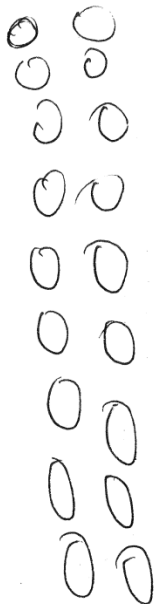
22 Animal all together

56 feet.



$$4 \times 10 = 40$$

$$2 \times 12 = 24$$



$$4 \times 10 = 40$$

$$2 \times 12 = 24$$

total 64

Janice

JANICE CLARKE

$$\begin{array}{r} 20 \\ 2 \\ \hline 40 \end{array}$$
$$\begin{array}{r} 2 \\ 4 \\ \hline 8 \end{array}$$
$$\begin{array}{r} 2226 \\ 6 \\ \hline \end{array}$$
$$\begin{array}{r} 50 \\ 22 \\ \hline 28 \end{array}$$
$$\begin{array}{r} 11 \\ 2 \\ \hline 22 \text{ feet} \\ 44 \\ \hline 66 \end{array}$$
$$\begin{array}{r} 22 \overline{) 56} \\ 44 \\ \hline 12 \end{array}$$
$$\begin{array}{r} 28 \\ 28 \\ \hline 56 \end{array}$$
$$\begin{array}{r} 10 \\ 2 \\ \hline 20 \\ 46 \\ \hline 66 \end{array}$$
$$\begin{array}{r} 12 \\ 4 \\ \hline 44 \end{array}$$
$$\begin{array}{r} 7882 \\ 1881 \\ \hline 601 \\ 10831 \\ 1389 \\ \hline 2,712 \end{array}$$

Janice Cont'd

B.

6. Farmer Montague raises chickens and goats. She is not sure how many she has of each animal, but she does know she has 22 animals all together. She also knows that all together, her animals have 56 feet. How many of each type of animal does Farmer Montague have?

JANICE CLARKE

Chickens has 2 feet
goats has 4 feet
THERE ARE 22 animals
and there are 56 feet

$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$	$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$	$\begin{array}{r} 17 \\ \times 2 \\ \hline 34 \end{array}$	$\begin{array}{r} 34 \\ 20 \\ \hline 54 \end{array}$
<p>9 chicken</p> $\begin{array}{r} 2 \\ 18 \\ \hline \end{array}$	<p>chicken</p> $\begin{array}{r} 16 \\ \times 2 \\ \hline 32 \\ 24 \\ \hline 56 \end{array}$	<p>5</p> $\begin{array}{r} 4 \\ 20 \\ \hline \end{array}$	<p>goats</p> $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$

Farmer Montague have 16 chickens
and 6 goats

(C)

6. Farmer Montague raises chickens and goats. She is not sure how many she has of each animal, but she does know she has 22 animals all together. She also knows that all together, her animals have 56 feet. How many of each type of animal does Farmer Montague have?

Daniel

Handwritten solution:

Goats = 8
Chickens = 14

Work shown:

A vertical column of numbers from 0 to 22, incrementing by 2.

To the left of the column:
 $\begin{array}{r} 1 \\ 38 \\ + 16 \\ \hline 54 \end{array}$

To the right of the column:
 $\begin{array}{r} 16 \\ 32 \\ 6+24 \\ \hline 56 \end{array}$

Below the column:
 $\begin{array}{r} 32 \\ + 24 \\ \hline 56 \end{array}$

(C)

6. Farmer Montague raises chickens and goats. She is not sure how many she has of each animal, but she does know she has 22 animals all together. She also knows that all together, her animals have 56 feet. How many of each type of animal does Farmer Montague have?

6 goats 16 chickens

Daniel

$$\begin{array}{r} 1 \\ 38 \\ + 16 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 16 \\ 6 \\ \hline 22 \\ + 24 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 32 \\ 24 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 32 \\ + 24 \\ \hline 56 \end{array}$$

Andrea

38, 42, 44, 50



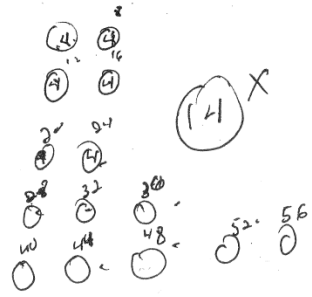
6. Farmer Montague raises chickens and goats. She is not sure how many she has of each animal, but she does know she has 22 animals all together. She also knows that all together, her animals have 56 feet. How many of each type of animal does Farmer Montague have?

~~Andrea~~

ANDREA

6/13/12

$$\begin{array}{r} 11 \\ + 11 \\ \hline 22 \end{array}$$



$$\begin{array}{l} 1^4 = 4 \\ 2^4 = 8 \\ 3^2 = 6 \\ 4^2 = 4 \\ 5^2 = 4 \\ 6^2 = 4 \\ 7^2 = 4 \\ 8^2 = 4 \\ 9^4 = 6 \end{array}$$

(30 TOTAL so far)

16 chicks
6 Goats

16 chicks
6 Goats

$$\begin{array}{l} 10^2 = 4 \\ 11^2 = 4 \\ 12^2 = 4 \\ 13^2 = 4 \\ 14^2 = 4 \\ 15^2 = 4 \\ 16^4 = 8 \end{array}$$

$$\begin{array}{r} 30 \\ + 26 \\ \hline 56 \end{array}$$

Alan



6. Farmer Montague raises chickens and goats. She is not sure how many she has of each animal, but she does know she has 22 animals all together. She also knows that all together, her animals have 56 feet. How many of each type of animal does Farmer Montague have?

$$\text{Animals} = 22$$

$$\text{Feet} = 56 \text{ feet}$$

$$\text{Chickens} = 2C$$

$$\text{Goats} = 4G$$

$$2C + 4G = 56$$

$$2C = 56 - 4G$$

$$C = \frac{56 - 4G}{2}$$

$$C = 28 - 2G$$

$$C + G = 22$$

$$56 - 2G + G = 22$$

$$56 - G = 22$$

$$56 = 22 + G$$

$$56 - 22 = G$$

$$2C + 4G = 22$$

$$2C = 22 - 4G$$

$$C = \frac{22 - 4G}{2}$$

$$C = 11 - 2G$$

$$\underline{22}$$

$$C + G = 22$$

$$C = 22 - G$$

$$\frac{56}{2C + 4G} = 22$$

$$C : G$$

$$2 : 4 = 22$$

$$C = 11$$

ALAN O'SAYTO

Elliott

6. Farmer Montague raises chickens and goats. She is not sure how many she has of each animal, but she does know she has 22 animals all together. She also knows that all together, her animals have 56 feet. How many of each type of animal does Farmer Montague have?

④

Elliott

24 Goat

32 Checker

10

36

20

$$\begin{array}{r} 12 \\ 2 \overline{) 24} \\ \underline{2} \\ 0 \end{array}$$

4532

$$4 \overline{) 36}$$
$$\begin{array}{r} 16 \\ \times 2 \\ \hline 32 \end{array}$$
$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

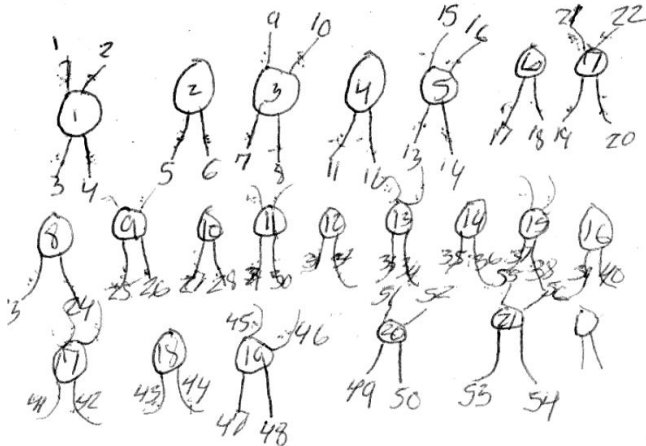
24

[illegible]

Sualdy

(6)

6. Farmer Montague raises chickens and goats. She is not sure how many she has of each animal, but she does know she has 22 animals all together. She also knows that all together, her animals have 56 feet. How many of each type of animal does Farmer Montague have? *Sualdy Buren*



$$\begin{array}{r} 22 \\ 56 \\ \hline 178 \end{array}$$

$$\begin{array}{r} 11 \\ 11 \\ 64 \\ \hline 86 \end{array}$$