Farmer Brown has chickens and horses. Every night, to make sure they are all there, he counts legs, how many horses and s 34 heads and 100 legs, how many
Brown have?

$$
\begin{array}{ll}
4 \times 25=100 & 16 \times 4=64 \\
18 \times 4=72 & 18 \times 2=36 \\
14 \times 2=\frac{28}{100} & \frac{34}{100}
\end{array}
$$

Farmer Brown has chickens and horses. Every night, to make sure they are all there, he count heads and legs. If he counts 34 heads and 100 Brown have?

$$
\begin{aligned}
& 34 \times 2=68 \quad / 100 \% \\
& 100-68=\frac{32}{2}=16 \text { horses } \\
& 34-11=10
\end{aligned}
$$

$$
34-16=18 \text { chickens }
$$

$$
18 \times 2+16 \times 4=100
$$

Farmer Brown has chickens and horses. Every night, to make sure they are all there, he counts heads and legs. If he counts 34 heads and 100 legs, how many horses and chickens does Farmer Brown have?



## Problem Solving Strategy Menu

- Act it out
- Use a model
- Draw a picture
- Guess and test
- Look for a pattern
- Use an open sentence
- Make a chart / table or graph
- Solve a simpler problem
- Consider all possibilities
- Consider extreme cases
- Make an organized list
- Work backwards
- Use logical reasoning
- Change your point of view



$$
\begin{array}{cc}
34+27 & 16 \times 25 \\
40+21 & 4 \times 4 \times 25 \\
10 \times 25+6 \times 25
\end{array}
$$

## Processes and Standards

Big Ideas!
Resources on the Website $\theta$


NCTM Principles and Standards_ elem.pptNCTM Overview_elem09.ppt

