



**VCTM 2017 Math Beauty Contest Problem for Above Algebra I**

**SOL: AII.4**

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Tom's family lived on a farm. They had animals and birds on their farm. Tom helped his parents by feeding the animals and birds. There were 3 times as many turkeys as chickens and  $\frac{1}{3}$  as many pigs as cows. There were the same number of chickens as pigs and the same number of cows as turkeys. There were 5 more horses than cows and there were  $\frac{1}{2}$  as many donkeys as horses. There were 45 birds and animals altogether. Tom also figured out that there were a total of 156 legs for all the animals and birds combined.

How many chickens, turkeys, pigs, cows, horses, and donkeys were there?

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We look forward to your entry. **Be sure to include a paragraph that fully explains your thinking and problem-solving strategies.**

**Remember to attach two 3" X 5" index cards to your entry** with your name, address, phone, E-mail (if you have one), school name, school address, school phone and grade level on them. Also write this information on your actual entry. **It must be postmarked by March 25, 2017.**

Mail your complete entry to:

**Connie Shepard  
109 Whitehall Ct.  
Williamsburg, VA 23188**

See the Official Rules for complete details.