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The Frog Puzzle

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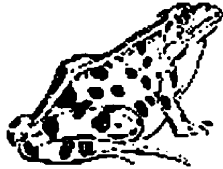
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THE FROG PUZZLE

Professor Thistlebush, an ecologist, conducted an experiment to determine the number of frogs that live in a pond near the field station. Since he could not catch all of the frogs he caught as many as he could, put a white band around their left hind legs, and then put them back in the pond. A week later he returned to the pond and again caught as many frogs as he could. Here are the Professor's data.



First trip to the pond

55 frogs caught and banded



Second trip to the pond

72 frogs caught, of those 72 frogs
12 were found to be banded

The Professor assumed that the banded frogs had mixed thoroughly with the unbanded frogs, and from his data he was able to approximate the number of frogs that live in the pond. If you can compute this number, please do so. Write it in the space below. Explain in words how you calculated your results.

