

GRADE FOUR – CONTENT STANDARD #5

FORMAL ASSESSMENT A

PETTING ZOO PERIMETERS

A petting zoo is being planned by the high school Future Farmers of America. Each of the high school students will be bringing in one of the baby animals they have been raising at home to put in the petting zoo. The students in your school will be able to go on a field trip to visit this zoo and pet the animals.

Your classroom has been asked to help design the pens for the baby animals. The high school students have pieces of fence left over from another project. Each piece of fence is 24 yards long. The animals that will be brought in for the petting zoo include:

- a baby lamb;
- a mother duck and eight babies;
- a pair of rabbits;
- a small pony;
- six baby chicks; and
- a baby goat.

Use some graph paper to design six pens that would be the best home for each of the sets of animals. Remember the perimeter – the amount of fence around the outside edge of each pen – will always be the same, 24 yards. Show all the different pen shapes you can make. Label each pen. Use labels to show which animal or animals will live in which pen and tell why you chose that pen.

[Source: A Guide to K-12 Program Development in Mathematics, Connecticut State Department of Education]

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