

# APEC-TSUKUBA INTERNATIONAL CONFERENCE XVII

## Chapter 2. In Mathematics Classroom

# Chicken Farms

## Unit for Measurement for Comparison

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Chapter 2  
Activity 8

### 2.8 Chicken Farms

#### Task 1

We would like to compare how chicken farms are crowded. There are two chicken farms called P and Q.

- For comparison, what shall we do?



(Source: Maths\_Challenges\_Classroom\_Practices\_Upper\_Primary\_Level, page 144 (measurement and relation))

- Mary counts the numbers of chicken in P and Q.
  - Hamid orders the areas of P and Q by majoring the scale.
- How shall Mary and Hamid collaborate for explaining which one is crowded by using their data?

#### Task 2

How about the case of chicken farms called Q and R?



If the number of chickens is the same, we compare what?

If the area of farms is the same, we compare what?

#### Task 3

For comparing crowdedness for three farms, how shall they do?

- How many ways do you find?
- Which one is useful?



#### Task 4

Let's add one more chicken farm called U by yourself by using the right farm-field and setting the number of chickens. And pose questions to your friends in order the crowdedness of four farms.



For making the number of chickens as the same, how shall we do?

For making the area of farms are the same, how shall we do?

Let's explain the learning objective of these activities by using the following words:

How to produce the unit for measurement for comparison.

For comparison of two objects, we have to compare on the same base such as on the same number of chicken or on the same area of farms.

For comparison of more than three objects, we have to use division for getting the rate on the base unit. Depending on which one is divisor as the selected base unit, the order changes as ascending order or descending order on the rate.

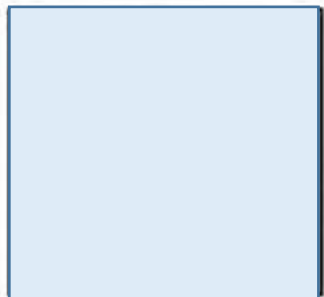
Appreciate others idea for selecting the base unit for ordering and critique each other for setting the best way.

# Chicken Farms

## Task 1

There are chicken farms called P and Q. We would like to compare how chicken farms are crowded.

What shall we do?



I count the numbers of chicken in P and Q

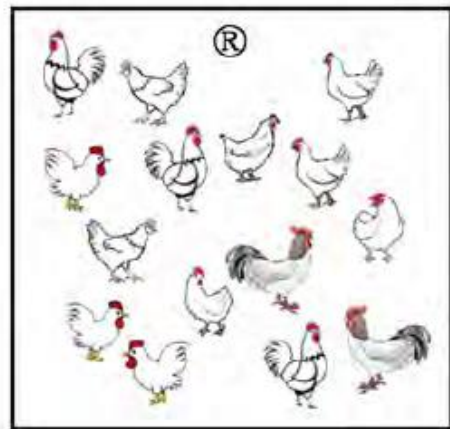
I order the areas of P and Q by majoring the scale

So, which one is crowded?

lots of chickens in a largest area, is it crowded?

## Task 2

How about the case of chicken farms called Q and R?



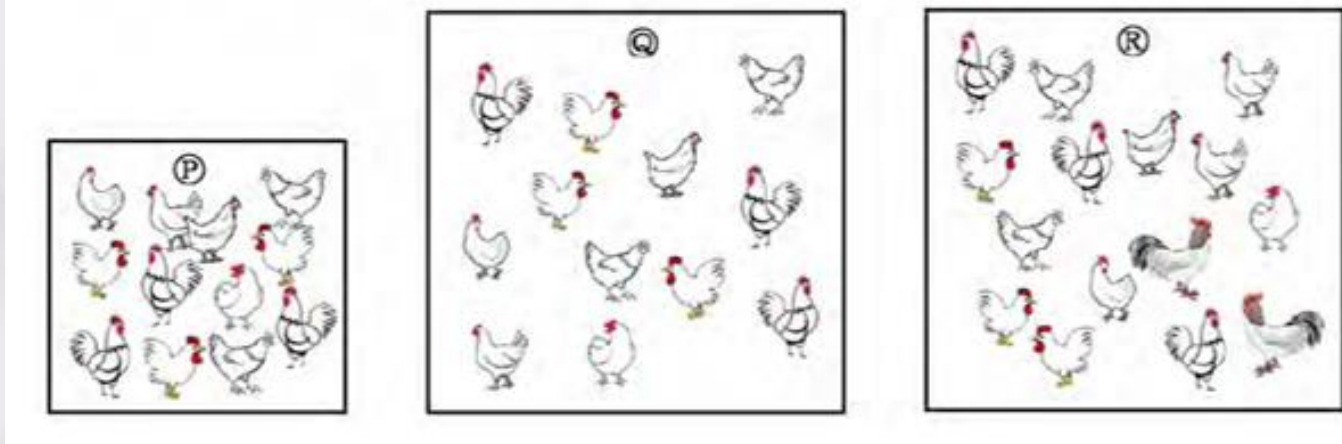
What If the number of chickens is the same?

What If the area of farms is the same?

# Chicken Farms

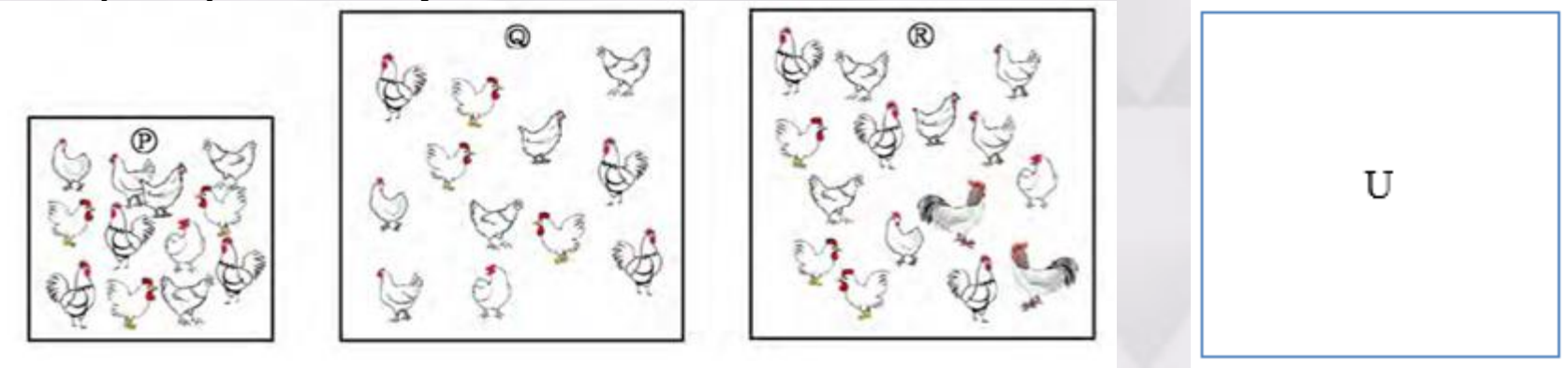
## Task 3

For comparing crowdedness for three farms, how shall they do?



## Task 4

Let's add one more chicken farm called U by yourself and setting the number of chickens. And pose questions to your friends in order the crowdedness of four farms?



How many ways do you find? Which one is useful?

How about the order?

We have to use division for getting the rate on the base unit.

### Mathematical Ideas

- Unit
- Comparison
- Ordering
- Pattern
- Algorithm

### Mathematical Attitude

- Pose questions and develop explanation
- Appreciate other's ideas