

## NAEP Questions

### 1st Question (12th Grade)

Inverse relation of squaring and square root  
Translating words & expressions into variables  
Different types of area (plane versus surface)  
Equality  
Setting up & solving quadratic equation

### 2nd Question (8th Grade)

Measurement  
Rounding appropriately in context  
Scale factor (and in terms of dimensions)  
Converting units (when and when not)  
Communicating mathematical ideas

### 3rd Question (8th Grade)

Scale factor (again in more than one dimension)  
Similarity  
Knowledge of right triangle

### 4th Question (8th Grade)

Determine area without equation  
Decomposing a composite figure  
Thinking of a pentagon in other than house-shaped  
Persistence / tenacity  
Convex versus concave