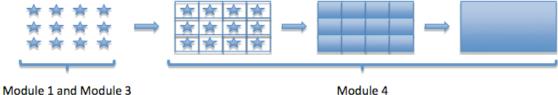
## Vocabulary for Unit 4: Multiplication and Area

- ▶ Area (the amount of two-dimensional space in a bounded region)
- ▶ Area model (a model for multiplication that relates rectangular arrays to area)



- Array (a set of numbers or objects that follow a specific pattern, a matrix)
- ▶ Commutative Property: a mathematical property using addition or multiplication where "a + b = b + a" or "a x b = b x a"; e.g., rotate a rectangular array 90 degrees to demonstrate that factors in a multiplication sentence can switch places; 2 + 3 = 3 + 2; 2 x 3 = 3 x 2
- ▶ Distribute(e.g.,  $2 \times (3 + 4) = 2 \times 3 + 2 \times 4$ )
- ▶ Geometric shape (a two-dimensional object with a specific outline or form)
- ▶ Length (the straight-line distance between two points)
- ▶ Rows and columns (e.g., in reference to rectangular arrays)
- ▶ Square unit (a unit of area—specifically square centimeters, inches, feet, and meters)
- ▶ Tile (to cover a region without gaps or overlaps)
- ▶ Unit square (e.g., given a length unit, it is a 1 unit by 1 unit square)
- ▶ Whole number (a number without fractions)