

# Place Value Modeling

1. Show students the bricks that represent each place value, beginning with the ones place, then the tens place, and then the hundreds place.

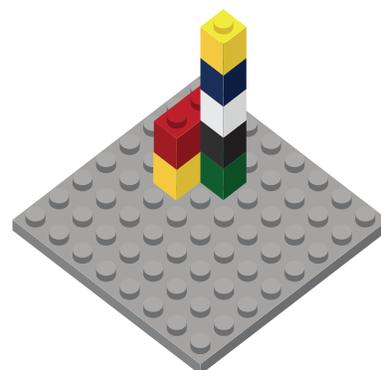
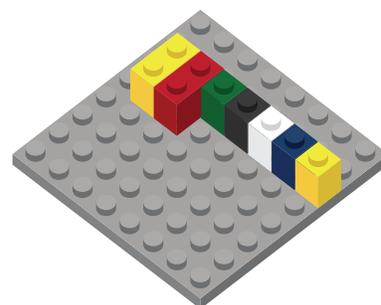
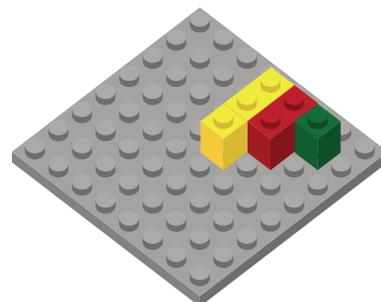
Explain to students:

- the 1x1 brick represents the ones place because one stud represents one digit (0 to 9)
- the 1x2 brick represents tens because it shows one digit in the tens place and one zero
- the 1x3 brick represents hundreds because it shows one digit in the hundreds place and two zeros

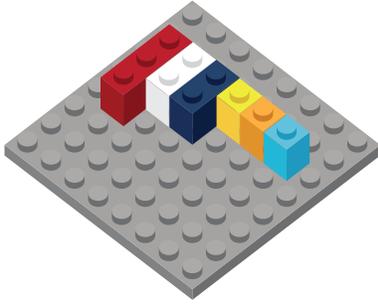
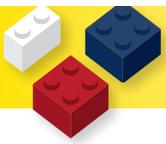
Have students build this model. Have students draw the model and label each brick as the ones, tens, and hundreds place.

2. Have students build the number 25 using the place value model as a guide. Have students share their model with a partner and describe the model. Have students draw and explain their models in writing.

*Note:* Students may choose to stack bricks to model place value, as shown in the second illustration. As long as they are correctly modeling the place value concept, this is acceptable.



*Possible models*



3. Have students model the number 123 and discuss their models with a partner. Have each student draw his/her model and write the expanded form that the bricks represent.

Students should understand that the 1x3 brick represents 100, the two 1x2 bricks represent  $10 + 10 = 20$ , and the three 1x1 bricks represent  $1 + 1 + 1 = 3$ .