

Make a Shape

Common Core Standard: Understand Place Value

1.NBT.2. Understand that the two digits of a two-digit number represent amounts of tens and ones.

2.1 NBT Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones, e.g., 706 equals 7 hundreds, 0 tens, and 6 ones

Directions:

1. Model the activity for students by telling them, “I want to make a shape that fits 32 tiles.” Draw a shape and then together with the students count the tiles, using a different color for each set of 10. Record the number of tiles used and how far away the amount is from 32.
2. Students do *Make a Shape* at their seats.
3. Bring students back to the rug and pose several problems:
 - Show students a shape covered with tiles (22) and ask them how many tiles there are and how they know.
 - After students determine how many tiles there are in the shape, say, “There are ____ tiles in this shape.” Write the number on the board. Ask, “How many groups of ten are there and how many extras? How do you know?”
 - Repeat showing another shape with tiles inside (31). You might also ask them how far away from 32 the number is.
 - Write the number 33 on the board. How many groups of ten are there in the number 33, and how many extras? How do you know?

Language Support:

Frame: There are _____ groups of ten and _____ extra.

How to differentiate:

- Vary the target number for individual students.
- Let students choose their own target number.

