



Models for Volume

TAKS Objective 4
TEKS 5.10B**Solve.**

1. Joseph made a $3 \times 4 \times 2$ figure with unit cubes. How many cubes did he use?

3. Iris's lunchbox has a volume of 300 cubic inches. If its height is 10 inches and its width is 3 inches, what is its length?

5. Three game boxes are each 5 inches high, 4 inches long, and 3 inches wide. Find the volume of a storage trunk needed to hold the three game boxes stacked on top of each other.

2. A square packing carton is 24 inches wide. How many 6-inch cubes will fit inside? Explain how they are arranged

4. A swimming pool has a length of 100 ft, width of 40 ft, and average depth of 6 ft. What is the volume of water in the pool when filled?

6. A solid figure is made of green and red cubes. There are twice as many green cubes as red cubes. It is 6 cubes high, 6 cubes wide and 6 cubes long. How many red cubes does the figure contain?
