

Set D7 ★ Independent Worksheet 1



INDEPENDENT WORKSHEET

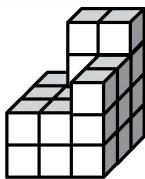
Building for a Bug

1 Bobby Bug's little family is growing, with new baby bugs hatching each day. Bobby must find the biggest possible home for his family. Which of the buildings on these 2 sheets has the greatest volume and could offer the most space to the bug family?

For each building:

- Look at the picture and estimate the volume in cubic centimeters.
- Build the structure with centimeter cubes.
- Find the volume. Try to find a way that's faster than counting every cube one by one.
- Use numbers, labeled sketches, and/or words to explain how you found the volume. (Hint: It might help to draw loops around some of the groups of cubes in the picture.)

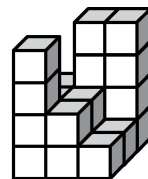
a



Volume Estimate _____

Volume _____

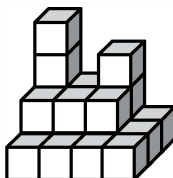
b



Volume Estimate _____

Volume _____

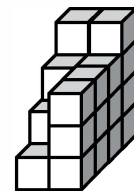
c



Volume Estimate _____

Volume _____

d



Volume Estimate _____

Volume _____

2 Which bug building should Bobby Bug choose for his family? Why?



CHALLENGE

3 What is the total volume of all the buildings?