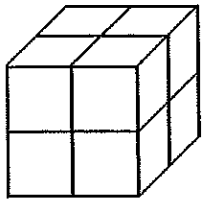
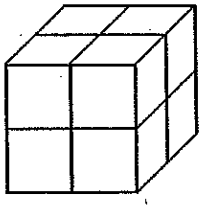
Name _____ Date _____

Measuring Volume Informally

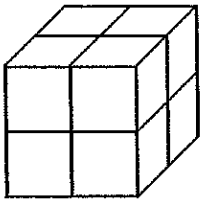
1. Construct this building with wooden cubes. Share the building equally between two people. Then show the equal shares on the drawing by coloring the shares with different colors.



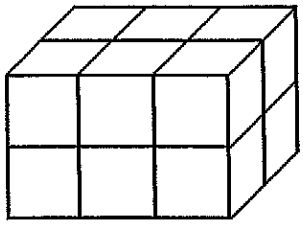
2. Share the building between two people in a different way.



3. Share this building equally among four people. Show the equal shares on the drawing.

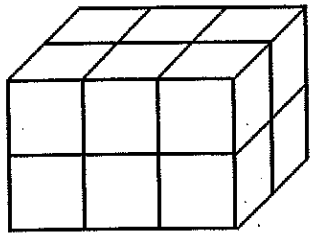


4. Share this building equally among three people. Show the equal shares on the drawing.

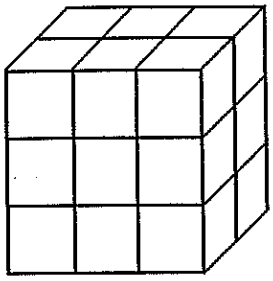


Name _____ Date _____

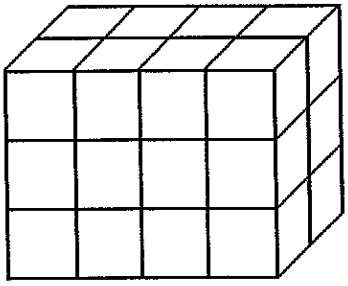
5. Share this building equally among four people. Show the equal shares on the drawing.



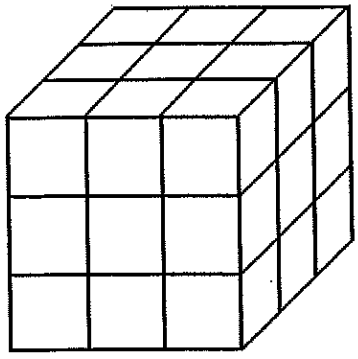
6. Share this building equally between two people. Show the equal shares on the drawing.



7. Share this building equally among four people. Show the equal shares on the drawing.

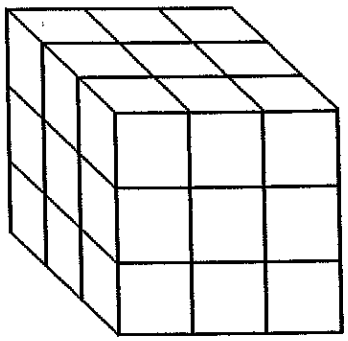


8. Share this building equally among three people. Show the equal shares on the drawing.

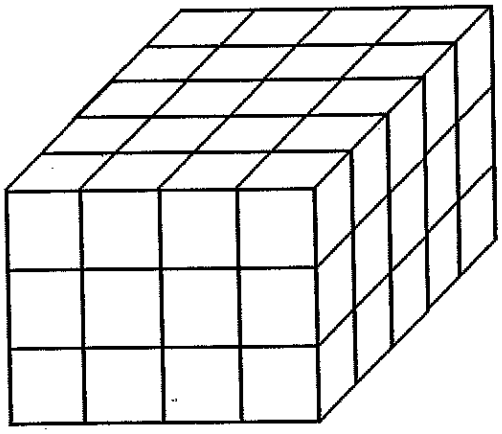


ame _____ Date _____

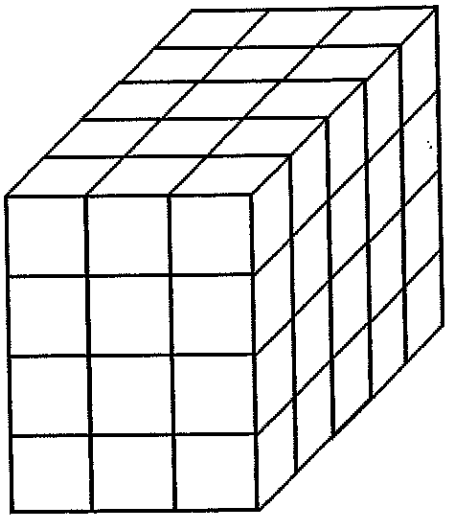
9. Share this building equally among three people in a different way. Show the equal shares on the drawing.



10. Share this building equally among four people. Show the equal shares on the drawing.



11. Share this building equally among five people. Show the equal shares on the drawing.



Name_____ Date _____

12. Build a rectangular building with 12 cubes. How many different buildings can you make? Record the number of cubes in each dimension of the buildings you made.

13. Build a rectangular building with 18 cubes. How many different buildings can you make? Record the number of cubes in each dimension of the buildings you made.

14. Is it possible to make a rectangular building that has exactly 11 cubes? If so, what does it look like? If not, why not?

15. What could be the possible dimensions for a rectangular building that has 24 cubes?

16. How are the numbers of cubes on each dimension related to the total number of cubes used to make a rectangular building?