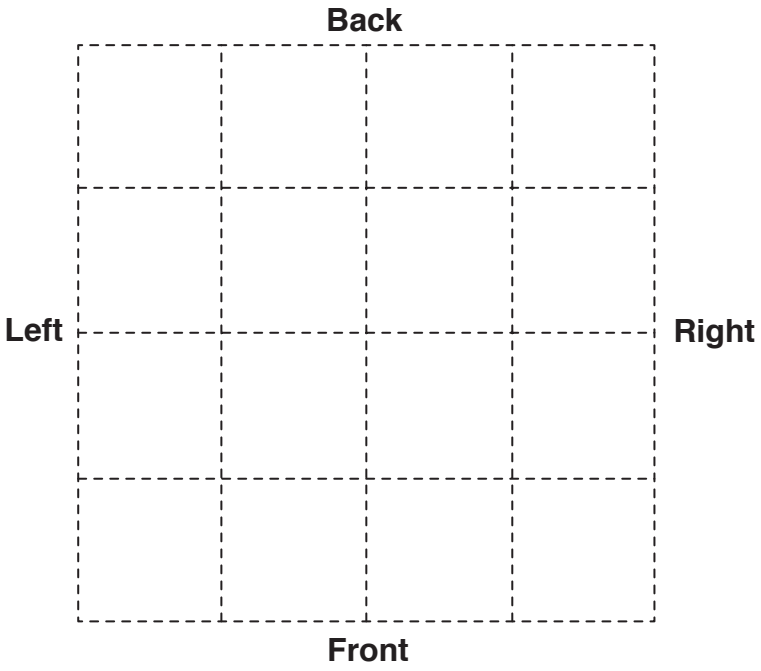
Name _____ Date _____

Building Detective

1. A. Construct a building and draw a building plan that matches Romesh's number sentence.

Building Plan for Romesh's Building



$6 + 6 + 1 = 13$ cubic units

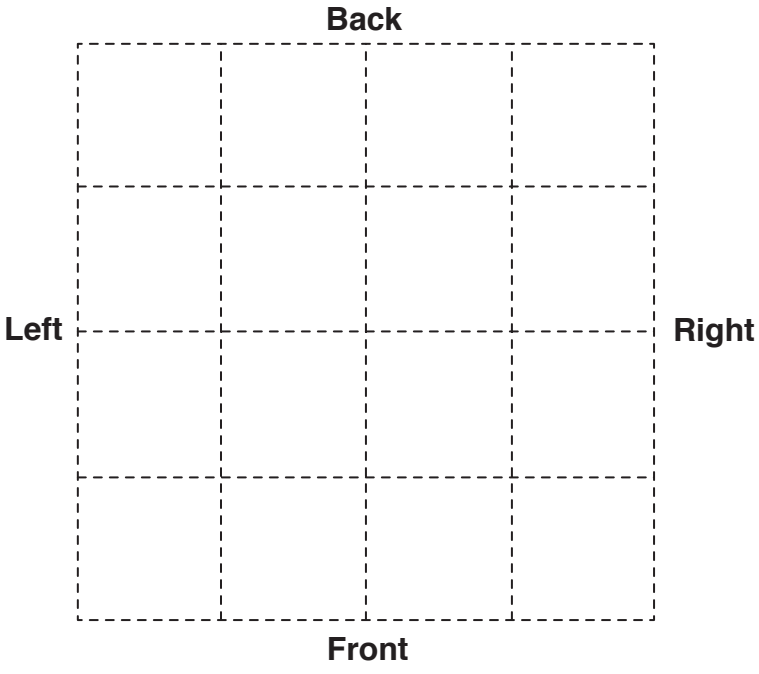
B. Height of tallest column _____

C. Volume _____

Name _____ Date _____

2. A. Construct a different building with the same volume as Romesh's building. Draw your building plan.

Building Plan for My Building

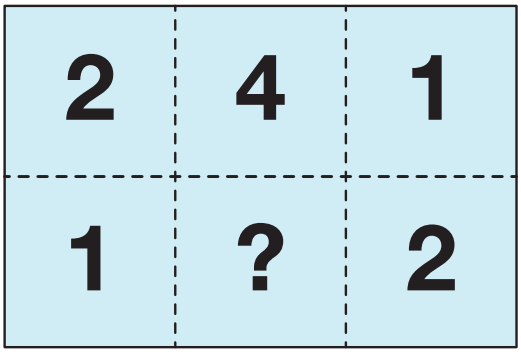


B. Write a number sentence for your building.

Number sentence _____

Name _____ Date _____

3. A. Romesh used 13 cubes to make this building plan. He forgot to fill in one part of the plan. Find the missing number. Write a number sentence.



Number sentence _____

B. Show or tell how you found the missing number.

Name _____ Date _____

Building Detective Feedback Box	Expectation	Check In	Comments
Recognize that different partitions of a number have the same total. [Q# 2]	E1		
Solve problems (e.g., part-whole, join) involving volume. [Q# 3]	E2		
Make connections between a building of cubes, the building plan, number sentences, and a picture of the building. [Q# 1–3]	E4		
Recognize that different shapes can have the same volume. [Q# 2]	E6		
Count and add cubic units to find volume. [Q# 1C, 2]	E8		
Construct a building plan given the volume. [Q# 1A, 2A]	E9		

	Yes . . .	Yes, but . . .	No, but . . .	No . . .
MPE1. Know the problem. I read the problem carefully. I know the questions to answer and what information is important. [Q# 1–2]				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 1–2]				
MPE6. Use labels. I use labels to show what numbers mean. [Q# 1]				