


Name _____ Date _____

Make Shapes with Cubes

1. Use words, pictures, or both to show two shapes you made using four connecting cubes. Write a number sentence to match each shape.



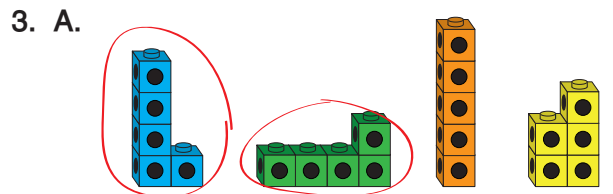
Number sentence _____ Number sentence _____

Cubes SAB • Grade 2 • Unit 10 • Lesson 1 505

Student Activity Book

Make Shapes with Cubes (SAB pp. 505-507) Questions 1–3

- 1.* See Figure 2 in the Lesson for the eight possible 4-cube shapes. Number sentences will vary.
2. **A.** Responses will vary. Possible response: The number of cubes or volume is the same.
B. Possible responses: the shape is different; one is longer and one is shorter; one is a square and one isn't; one is straight and one is not)



- B.** The volume of each building is 5 cubic units.
- C.** Possible response: I counted the cubes

Student Activity Book - Page 505

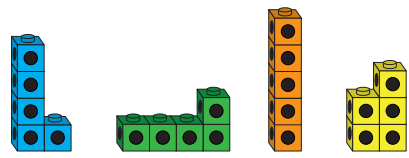
Name _____ Date _____

2. Compare the two shapes.

- A.** What is the same? _____

- B.** What is different? _____

3. **A.** Look at the picture of the buildings below. Circle the two buildings that have the same shape.



- B.** What is the volume of each building?
 _____ cubic units
- C.** Show or tell how you found the volume of each building.

506 SAB • Grade 2 • Unit 10 • Lesson 1 Cubes

Student Activity Book - Page 506

Name _____ Date _____

Make Shapes with Cubes Feedback Box	Check It	Comments
Recognize that different partitions of a number have the same total. [Q# 1]	E1	
Apply the properties of addition to compose number sentences that represent the volume a building. [Q# 1]	E3	
Make connections between a building of cubes and number sentences. [Q# 1]	E4	
Identify shapes that are the same size and shape. [Q# 3A]	E5	
Recognize that different shapes can have the same volume. [Q# 2A, 3A]	E6	
Count and add cubic units to find volume. [Q# 1, 3B]	E8	
MP5C. Show my work. I show or tell how I found the volume so someone else can understand my thinking. [Q# 1, 3B]	Yes ...	No ...
	Yes, but ...	No, but ...

507 SAB • Grade 2 • Unit 10 • Lesson 1

Student Activity Book - Page 507

*Answers and/or discussion are included in the lesson.

Teacher Guide


Find the Twins (TG)

Homework

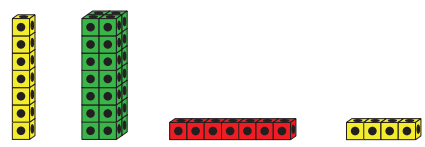
Questions 1–3

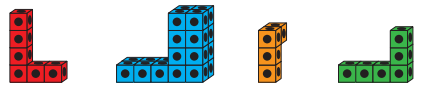
1. The first and the third model have the same shape.
2. The first and the fourth model have the same shape.
3. **A.** Possible responses: The number of cubes or volume is the same. They both have 6 cubes.
B. Possible responses: The shape is different; one is straight, one is not; one looks like a “T”; one looks like a line

Name _____ Date _____


Find the Twins


Look at the pictures of the buildings below. For each problem, circle the two buildings that have the same shape.

1. 

2. 

3. Compare the two buildings.



A. How are these two shapes alike? _____

B. How are they different? _____

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Homework Master

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