Student Activity Book

Professor Peabody's Problems (SAB pp. 245–248) Questions 1–4

1.* Professor Peabody is incorrect.

Possible response: Emily has more loose cubes than Josh, but the total value of her cubes is only 19. Josh's total is 21.

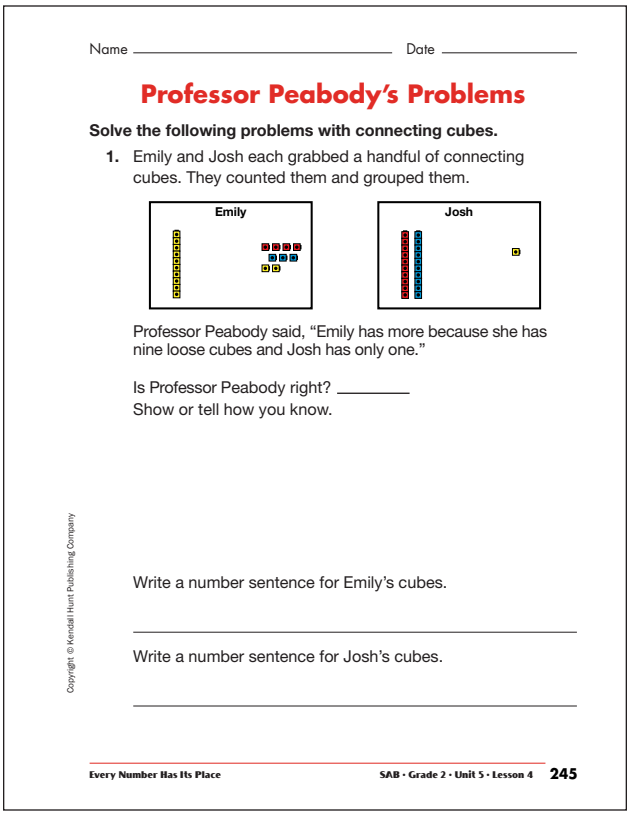
Number sentence for Emily's cubes:
10 + 9 = 19

Number sentence for Josh's cubes:
20 + 1 = 21

2.* Possible response: Professor Peabody is wrong. Sara has only 5 pieces and Luis has 10 pieces, but Sara's pieces have a greater value. You can't just count the number of pieces. You have to think about their value.

Number sentence for Sara's cubes: 30 + 2 = 32

Number sentence for Luis's cubes: 10 + 9 = 19



Name _____ Date _____

Professor Peabody's Problems

Solve the following problems with connecting cubes.

1. Emily and Josh each grabbed a handful of connecting cubes. They counted them and grouped them.

Emily

Josh

Professor Peabody said, "Emily has more because she has nine loose cubes and Josh has only one."

Is Professor Peabody right? _____
Show or tell how you know.

Write a number sentence for Emily's cubes.

Write a number sentence for Josh's cubes.

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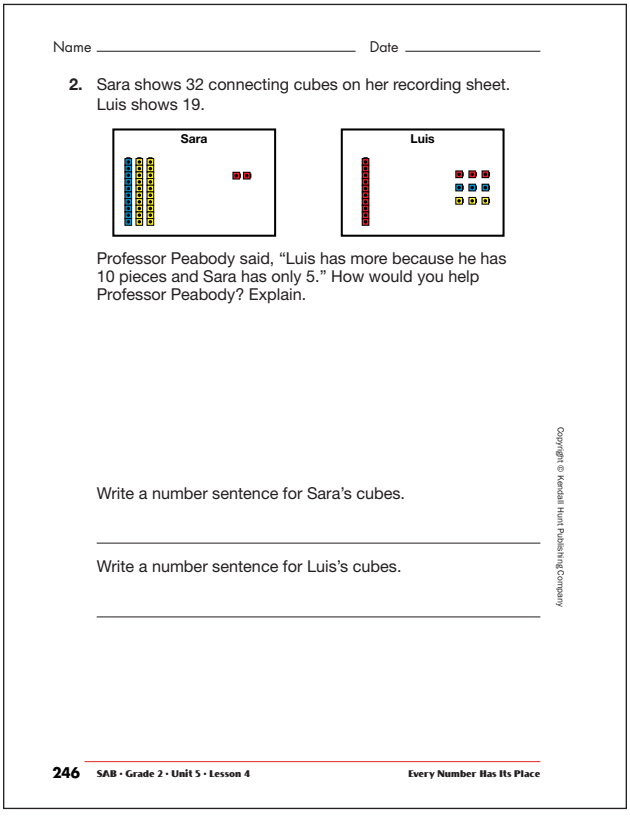

Name _____ Date _____

2. Sara shows 32 connecting cubes on her recording sheet. Luis shows 19.

Sara

Luis

Professor Peabody said, "Luis has more because he has 10 pieces and Sara has only 5." How would you help Professor Peabody? Explain.

Write a number sentence for Sara's cubes.

Write a number sentence for Luis's cubes.

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

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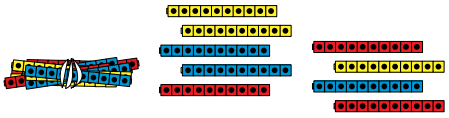
3. Professor Peabody found a bag of buttons. There were 109 buttons in the bag. He used connecting cubes to model the number. Did Professor Peabody model 109 correctly?



Show or tell how you know.

Draw a correct model for 109 pieces.

Write a number sentence for your model.

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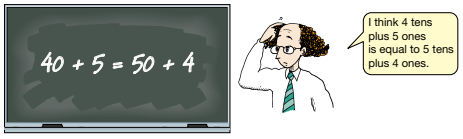
4. Professor Peabody wrote this number sentence on the board:



Do you agree with Professor Peabody? Is 40 + 5 = 50 + 4 a true number sentence? Show or tell how you know.

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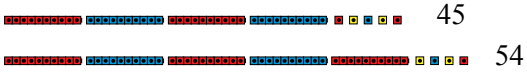
3.* No, Professor Peabody did not model 109 correctly.

Possible response: Professor Peabody shows 100 correctly, but he uses 9 stacks of ten instead of 9 single cubes to show 9 ones. He shows 190, not 109.

100 + 9 = 109

4.* I disagree with Professor Peabody.
40 + 5 = 50 + 4 is not a true number sentence.

Possible response:



45 < 54

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

Building Numbers (SAB pp. 249–250)
Questions 1–8

Possible responses for Questions 1–5:

1.

Number	Tens	Ones	Number Sentence
40	2	20	20 + 20 = 40
40	3	10	30 + 10 = 40

2.

Number	Tens	Ones	Number Sentence
67	3	37	30 + 37 = 67
67	5	17	50 + 17 = 67

3.

Number	Tens	Ones	Number Sentence
98	5	48	50 + 48 = 98
98	3	68	30 + 68 = 98

4.

Number	Hundreds	Tens	Ones	Number Sentence
111	1	1	1	100 + 10 + 1 = 111
111		10	11	100 + 11 = 11

5.*

Number	Hundreds	Tens	Ones	Number Sentence
123	1	2	3	100 + 20 + 3 = 123
123		10	23	100 + 23 = 123

6.

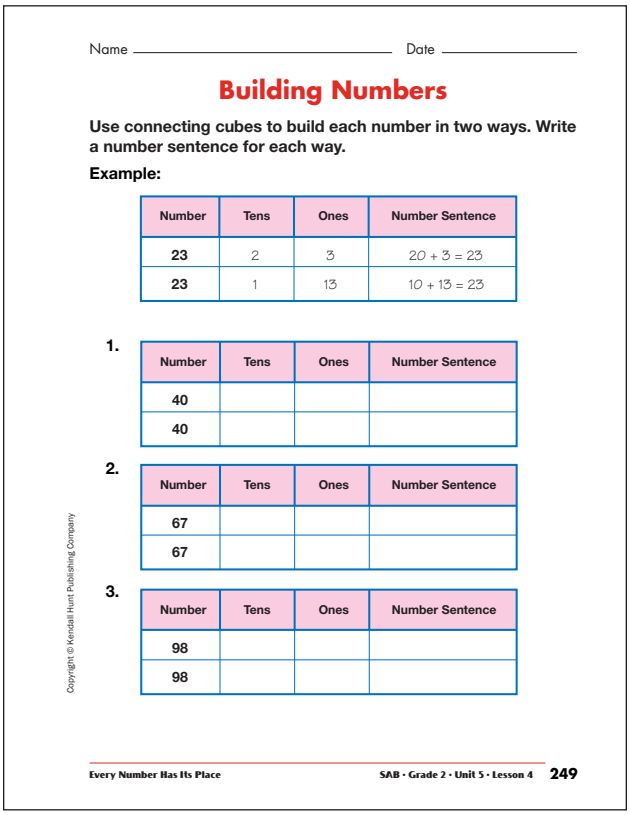
Number	Tens	Ones	Number Sentence
54	5	4	50 + 4 = 54
54	4	14	40 + 14 = 54

7.*

Number	Tens	Ones	Number Sentence
37	3	7	30 + 7 = 37
37	2	17	20 + 17 = 37

8.

Number	Tens	Ones	Number Sentence
70	7	0	70 + 0 = 70
70	6	10	60 + 10 =70



Name _____ Date _____

Building Numbers

Use connecting cubes to build each number in two ways. Write a number sentence for each way.

Example:

Number	Tens	Ones	Number Sentence
23	2	3	20 + 3 = 23
23	1	13	10 + 13 = 23

1.

Number	Tens	Ones	Number Sentence
40			
40			

2.

Number	Tens	Ones	Number Sentence
67			
67			

3.

Number	Tens	Ones	Number Sentence
98			
98			

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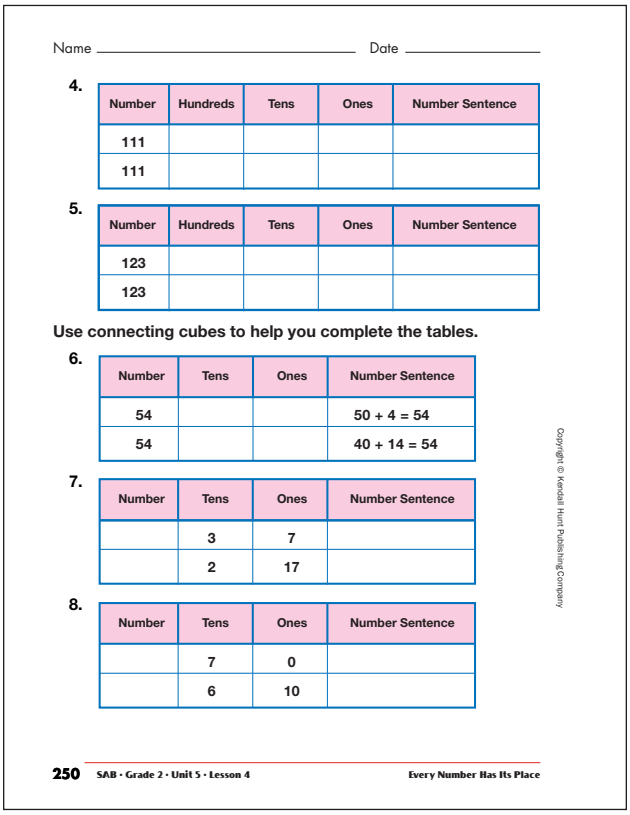

Name _____ Date _____

4.

Number	Hundreds	Tens	Ones	Number Sentence
111				
111				

5.

Number	Hundreds	Tens	Ones	Number Sentence
123				
123				

Use connecting cubes to help you complete the tables.

6.

Number	Tens	Ones	Number Sentence
54			50 + 4 = 54
54			40 + 14 = 54

7.

Number	Tens	Ones	Number Sentence
	3	7	
	2	17	

8.

Number	Tens	Ones	Number Sentence
	7	0	
	6	10	

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