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Many Ways to Say It

Work with a partner. Each partner will write a number sentence to describe the buildings in the plans. Then combine the number sentences to make a new true number sentence.

Building Plan	Number Sentences				
Example <table border="1"> <tr><td>3</td><td>2</td></tr> <tr><td>7</td><td>8</td></tr> </table>	3	2	7	8	$3 + 7 + 2 + 8 = 20$ My number sentence _____ My partner's number sentence _____ $10 + 10 = 20$ Combined number sentence _____
3	2				
7	8				
A. <table border="1"> <tr><td>4</td><td>16</td></tr> <tr><td>18</td><td>2</td></tr> </table>	4	16	18	2	My number sentence _____ My partner's number sentence _____ Combined number sentence _____
4	16				
18	2				
B. <table border="1"> <tr><td>25</td><td>25</td></tr> <tr><td>5</td><td>5</td></tr> </table>	25	25	5	5	My number sentence _____ My partner's number sentence _____ Combined number sentence _____
25	25				
5	5				

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Building Plan	Number Sentences				
C. <table border="1"> <tr><td>10</td><td>12</td></tr> <tr><td>6</td><td>4</td></tr> </table>	10	12	6	4	My number sentence _____ My partner's number sentence _____ Combined number sentence _____
10	12				
6	4				
D. <table border="1"> <tr><td>10</td><td>90</td></tr> <tr><td>60</td><td>40</td></tr> </table>	10	90	60	40	My number sentence _____ My partner's number sentence _____ Combined number sentence _____
10	90				
60	40				
E. Make your own building plan. <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					My number sentence _____ My partner's number sentence _____ Combined number sentence _____

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Many Ways to Say It (SAB pp. 543–544)
Questions A–E

Possible number sentences given for Questions A–E.

- A.*** My number sentence: $18 + 2 + 4 + 16 = 40$
 My partner's number sentence:
 $18 + 16 + 4 + 2 = 40$
 Combined number sentence:
 $18 + 2 + 4 + 16 = 18 + 16 + 4 + 2$
- B.*** My number sentence: $25 + 25 + 5 + 5 = 60$
 My partner's number sentence:
 $25 + 5 + 25 + 5 = 60$
 Combined number sentence:
 $25 + 25 + 5 + 5 = 25 + 5 + 25 + 5$
- C.** My number sentence: $10 + 12 + 6 + 4 = 32$
 My partner's number sentence:
 $10 + 4 + 6 + 12 = 32$
 Combined number sentence:
 $10 + 12 + 6 + 4 = 10 + 4 + 6 + 12$
- D.** My number sentence: $90 + 10 + 60 + 40 = 200$
 My partner's number sentence:
 $10 + 60 + 90 + 40 = 200$
 Combined number sentence:
 $90 + 10 + 60 + 40 = 10 + 60 + 90 + 40$
- E.*** Building plans and number sentences will vary.

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

True or False (SAB p. 545)

Questions 1–2

1.
 - A. True
 - B. True
 - C. True
 - D.*True
 - E.*False
 - F. False
 - G.*True
 - H. False
 - I. Possible response: For Question H,
 $80 + 20 + 30 = 50 + 50 + 30$
2.
 - A.* $6 + 7 = 7 + \boxed{6}$
 - B. $1 + 2 + 9 + 4 = \boxed{7} + 8 + 1$
 - C. $10 + 0 + \boxed{10} = 10 + 8 + 2$
 - D. $5 + 5 + 5 + 5 + 5 + 5 = 10 + \boxed{15} + 5$
 - E. $\boxed{25} + 50 + 50 + 25 = 100 + 50$

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True or False

1. Is it true or false? Circle one.

A. $80 + 80 = 150 + 10$	True	False
B. $6 + 2 + 4 = 6 + 2 + 2 + 2$	True	False
C. $7 + 7 + 3 = 14 + 3$	True	False
D. $6 + 14 = 14 + 6$	True	False
E. $6 + 4 = 4 - 6$	True	False
F. $0 + 18 + 2 = 15 + 0 + 10$	True	False
G. $50 + 30 + 2 = 2 + 30 + 50$	True	False
H. $80 + 20 + 30 = 50 + 50 + 50$	True	False

I. Choose one of the false statements and make it true.

2. Make the number sentences true.
 - A. $6 + 7 = 7 + \boxed{}$
 - B. $1 + 2 + 9 + 4 = \boxed{} + 8 + 1$
 - C. $10 + 0 + \boxed{} = 10 + 8 + 2$
 - D. $5 + 5 + 5 + 5 + 5 + 5 = 10 + \boxed{} + 5$
 - E. $\boxed{} + 50 + 50 + 25 = 100 + 50$

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Putting It All Together (SAB p. 547)

Questions 1–3

1. Possible number sentences:

Number sentence 1: $10 + 6 + 12 + 4 = 32$

Number sentence 2: $6 + 4 + 10 + 12 = 32$

Combined number sentence:
 $10 + 6 + 12 + 4 = 6 + 4 + 10 + 12$
2.
 - A. False
 - B. True
 - C. True
3.
 - A. $7 + 9 + 1 = \boxed{1} + 9 + 7$
 - B. $10 + 10 + 10 = 5 + 5 + 5 + 5 + \boxed{10}$
 - C. $16 + 4 + 5 = 10 + \boxed{10} + 5$

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Putting It All Together

1. Write two number sentences to describe the building in the plan. Then combine the number sentences to make one new true number sentence.

Building Plan	Number Sentences				
<table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">10</td> <td style="padding: 5px;">12</td> </tr> <tr> <td style="padding: 5px;">6</td> <td style="padding: 5px;">4</td> </tr> </table>	10	12	6	4	<p>Number sentence 1 _____ Number sentence 2 _____</p> <p>Combined number sentence _____</p>
10	12				
6	4				
2. Is it true or false? Circle one.

A. $8 + 9 = 12 + 3$	True	False
B. $12 + 6 + 4 = 6 + 4 + 12$	True	False
C. $70 + 70 + 3 = 140 + 3$	True	False
3. Make the number sentences true.
 - A. $7 + 9 + 1 = \boxed{} + 9 + 7$
 - B. $10 + 10 + 10 = 5 + 5 + 5 + 5 + \boxed{}$
 - C. $16 + 4 + 5 = 10 + \boxed{} + 5$

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

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Putting It All Together

Feedback Box

Expectation	Check In	Comments
Recognize that different partitions of a number have the same total. (QE 1–3)	E1	
Solve problems (e.g., part-whole, join) involving volume. (QE 1)	E2	
Apply the properties of addition to write number sentences that represent the volume of a building. (QE 1)	E3	
Count and add cubic units to find volume. (QE 3)	E8	

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Building Plan		Number Sentences					
A.	<table border="1"> <tr><td>20</td><td>40</td></tr> <tr><td>80</td><td>60</td></tr> </table>	20	40	80	60	Number sentence 1 _____	Number sentence 2 _____
20	40						
80	60						
	Combined number sentence _____						
B.	<table border="1"> <tr><td>22</td><td>4</td></tr> <tr><td>8</td><td>34</td></tr> </table>	22	4	8	34	Number sentence 1 _____	Number sentence 2 _____
22	4						
8	34						
	Combined number sentence _____						
C.	Make your own building plan. <table border="1" style="width: 50px; height: 50px; margin-left: 20px;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					Number sentence 1 _____	Number sentence 2 _____
	Combined number sentence _____						

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Homework Master **TG • Grade 2 • Unit 10 • Lesson 6**

Teacher Guide

Teacher Guide

**Building Parts (TG)
Homework**

Questions A–C

Possible number sentences given for Questions A–C:

- A.** Number sentence 1: $20 + 80 + 40 + 60 = 200$
 Number sentence 2: $60 + 20 + 80 + 40 = 200$
 Combined number sentence:
 $20 + 80 + 40 + 60 = 60 + 20 + 80 + 40$
- B.** Number sentence 1: $22 + 8 + 34 + 4 = 68$
 Number sentence 2: $34 + 4 + 22 + 8 = 68$
 Combined number sentence:
 $22 + 8 + 34 + 4 = 34 + 4 + 22 + 8$
- C.** Building plans and number sentences will vary.