

MY Homework**Lesson 1****Addition Properties and Subtraction Rules****Homework Helper**Need help? connectED.mcgraw-hill.com**Add $(44 + 18) + 22$ mentally.**

Use the Associative Property of Addition to make these numbers easier to add. The way in which numbers are grouped when added does not affect the sum.

$$\begin{aligned} (44 + 18) + 22 &= 44 + (18 + 22) && \leftarrow \text{Find } 18 + 22 \text{ first.} \\ &= 44 + 40 \\ &= 84 \end{aligned}$$

So, $44 + 18 + 22 = 84$.**Practice****Complete each number sentence. Identify the property or rule used.**

1. $85 + 0 = \underline{\hspace{2cm}}$

2. $96 + 13 = 13 + \underline{\hspace{2cm}}$


3. $\underline{\hspace{2cm}} - 0 = 37$

4. $(15 + 23) + 7 = 15 + (\underline{\hspace{2cm}} + 7)$



Problem Solving

5. While bird watching, Gabrielle saw 6 robins and 3 blue jays. Chase saw 3 robins and 6 blue jays. Who saw more birds? Tell which property you used.

6. **Mathematical PRACTICE**  **Use Mental Math** For homework, Brooke has 15 math problems, 5 social studies problems, and 9 science problems. Use mental math to determine how many problems she has for homework. Tell which property you used.

7. A soccer team scored 2 goals in the first half. If they won the game by a score of 2 goals to 1 goal, how many goals did they score in the second half? Tell which property you used.

Vocabulary Check



Write a number sentence that demonstrates each property.

8. Commutative Property of Addition _____
9. Associative Property of Addition _____
10. Identity Property of Addition _____

Test Practice

11. Which number sentence represents the Commutative Property of Addition?
- (A) $357 + 0 = 357$ (C) $36 + 14 = 14 + 36$
- (B) $(7 + 19) + 3 = 7 + (19 + 3)$ (D) $79 - 79 = 0$