

# MY Homework

## Lesson 1

### Addition Properties and Subtraction Rules

## Homework Helper

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**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.

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

So,  $44 + 18 + 22 = 84$ .

## Practice

Complete each number sentence. Identify the property or rule used.

1.  $85 + 0 = \underline{85}$

**Identity Property of Addition**

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

**Commutative Property of Addition**

3.  $\underline{37} - 0 = 37$

**When you subtract zero from any number,  
the result is the number.**

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

**Associative Property of Addition**






## 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.

**They both saw the same number of birds;**

**Commutative Property of Addition**

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.

**29 problems; Associative Property of Addition**

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.

**0 goals; Identity Property of Addition**

## Vocabulary Check



**Sample answers: 8–10**

**Write a number sentence that demonstrates each property.**

- |                                     |   |
|-------------------------------------|---|
| 8. Commutative Property of Addition | <u><math>8 + 9 = 9 + 8</math></u>               |
| 9. Associative Property of Addition | <u><math>(12 + 4) + 6 = 12 + (4 + 6)</math></u> |
| 10. Identity Property of Addition   | <u><math>17 + 0 = 17</math></u>                 |

## 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)  $79 - 79 = 0$