

Add It Up

Tell whether you use the Commutative (Order) Property, the Associative (Grouping) Property, or the Identity (Zero) Property. Explain your answer. Then solve.

Reasoning

1. $? + 14 = 14$. You use the **Identity** Property because **any number added to zero is that number**. The solution is **0**.

2. $(10 + 9) + 8 = ? + (9 + 8)$. You use the **Associative** Property because **the order does not matter; The addends add to the same amount.**

The solution is **10**.

3. How can you write $9 + 13$ using 9 and two other addends? Find the sum and explain your answer.

Students' answers should include 9 and two other addends that have a sum of 13.

4. Use two different addends to write a problem that has the same sum as $9 + 13$. Explain your answer.

Sample answer: $7 + 15 = 22$; Students' answers should include any two addends that have a sum of 22.