Adding/Subtracting Decimals (3-6)

commutative property	Decode comm • u • ta • tive prop • er • ty
Definition you can add in any order	Example 2 + 6 = 8 6 + 2 = 8

associative property	Decode a • ssoci • a • tive prop • er • ty
Definition you can regroup what's in parentheses	Example (12 + 7) + 8 → 19 + 8 → 27 (12 + 8) + 7 → 20 + 7 → 27

Which property is being illustrated?

17 + 21 + 11 = 17 + 11 + 21 — **commutative** or associative

(11 + 12) + 19 = (11 + 19) + 12 — commutative or **associative**

(25 + 17 + 5) = (25 + 5 + 17) — **commutative** or associative

Example 1: Add or subtract.

I Do	We Do	You Do
15.89 - 11.72 15.89 - 11.72 4.17	25.84 + 9.4 1 1 25.84 + 9.40 35.24	129.87 – 82.6 129.87 - 82.60 47.27

Example 2: Evaluate when x = 4.25 and y = 12.7

I Do	We Do	You Do
15.89 - y 15.89 - 12.70 3.19	x + 9.4 4.25 +9.40 13.65	58.9 - x 8 10 58.90 - 4.25 54.65

IXL Lessons: 6th Grade → G.1, G.2

Example 3: Use mental math to solve.

I Do	We Do	You Do
You go to the grocery store and buy apples for $2.50, oranges for $4.61, and bananas for $1.50. What is your total?	You purchase school supplies and spend $1.35 on pencils, $2.75 on markers, $5.65 on a binder, and $4.25 on a pencil pouch. What is your total?	You and your friend have $7 to spend on candy. If sour patch kids are $2.95, snickers are $1.25, skittles are $1.75, and twix are $2.05. Do you have enough to buy one of each?

Example 4: Solve by setting up an addition or subtraction problem.

We Do
The Willow Creek is 592.73 miles long. If the Pinnebog River is 892.41 miles long, which is longer? By how much?

IXL Lessons: 6th Grade → G.1, G.2