

Name: _____ Date: _____

Grade & Section: _____ Score: _____

GROUP WORK: The Three Paths to Adding Integers

Part 1: The Integer Chip Method (Visual)

Instructions: For each problem, draw circles. Use (+) for positive and (-) for negative. Cross out the "Zero Pairs" and write the remaining value.

1. $(+5) + (-3)$
 - o Draw: (+) (+) (+) (+) (+)
 - o Draw: (-) (-) (-)
 - o **Answer:** _____
2. $(-6) + (+2)$
 - o Draw:
 - o Draw:
 - o **Answer:** _____

Part 2: The Number Line Method (Spatial)

Instructions: Start at the first number. Draw an arrow to show the movement. (Remember: **Right** for Positive, **Left** for Negative).

3. $(-4) + (+7)$
 - o Start at -4, move 7 units to the right.
 - o **Final Position:** _____
4. $(2) + (-5)$
 - o Start at 2, move 5 units to the left.
 - o **Final Position:** _____

Part 3: The Rules of Integers (Abstract)

Instructions: Apply the formal rules to find the sum. Show your thinking process.

- **Rule A:** Same signs? **Add** the numbers and keep the sign.
- **Rule B:** Different signs? **Subtract** the absolute values and take the sign of the "bigger" number.

5. $(-15) + (-10)$
 - o Are the signs the same or different? _____
 - o **Final Answer:** _____

6. $(+25) + (-30)$

o Which number has a higher absolute value? _____

o **Final Answer:** _____

7. $(-100) + (+120)$

o **Final Answer:** _____

Part 4: The Kalawaan Challenge (Application)

Instructions: Solve the localized word problem using any method above.

1. "A fisherman at the Pasig River bank near C-6 drops his hook **4 meters below** the water surface (-4). A large wave lifts his boat **3 meters up** (+3). What is the current position of his hook relative to the water surface?"

Equation: _____

Final Answer: _____

2. During a heavy rainstorm in Barangay Kalawaan, the water level of the Pasig River was monitored. At 6:00 AM, the water level was 3 m below the flood marker (represented as -3). By 10:00 AM, due to the high tide and rain, the water level rose by 5 (represented as +5).

Equation: _____

Final Answer: _____

©Awin