

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)**
 - Draw: (+) (+) (+) (+) (+)
 - Draw: (-) (-) (-)
 - **Answer:** _____
2. **(-6) + (+2)**
 - Draw: _____
 - Draw: _____
 - **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)**
 - *Start at -4, move 7 units to the right.*
 - **Final Position:** _____
4. **(2) + (-5)**
 - *Start at 2, move 5 units to the left.*
 - **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)**
 - Are the signs the same or different? _____
 - **Final Answer:** _____

6. $(+25) + (-30)$
- Which number has a higher absolute value? _____
 - **Final Answer:** _____
7. $(-100) + (+120)$
- **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: _____

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