



ESCUELA DE EDUCACIÓN BÁSICA "Dr. CARLOS REYES ANDRADE"
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Two rows of abacus problems. Each row shows a sequence of operations on an abacus with 5 blue beads on the top bar and 5 orange beads on the bottom bar.

Row 1: $\text{[empty circle]} - 1 + 3 = \text{[empty circle]}$
Step 1: Abacus with 5 blue beads. Arrow up. Hand points to top bar.
Step 2: Abacus with 4 blue beads. Arrow down. Hand points to top bar.
Step 3: Abacus with 4 blue beads and 3 orange beads. Arrow up. Hand points to bottom bar.
Step 4: Abacus with 4 blue beads and 3 orange beads.

Row 2: $2 + \text{[empty circle]} - 3 = \text{[empty circle]}$
Step 1: Abacus with 2 blue beads and 3 orange beads. Arrow up. Hand points to top bar.
Step 2: Abacus with 4 blue beads and 3 orange beads. Arrow up. Hand points to top bar.
Step 3: Abacus with 4 blue beads and 3 orange beads. Arrow down. Hand points to top bar.
Step 4: Abacus with 1 blue bead and 3 orange beads.

Eight problems (A-H) using abaci and turtle illustrations. Each problem shows a sequence of operations and a final abacus state.

(A) $2 - 1 + 3$
Abacus: 2 blue beads, 3 orange beads. Turtle: small.

(B) $1 - 1 + 1$
Abacus: 1 blue bead, 1 orange bead. Turtle: medium.

(C) $3 - 1 + 2$
Abacus: 3 blue beads, 2 orange beads. Turtle: large.

(D) $4 - 3 - 1$
Abacus: 4 blue beads, 1 orange bead. Turtle: small.

(E) $2 + 2 - 3$
Abacus: 2 blue beads, 2 orange beads. Turtle: large.

(F) $4 - 4 + 3$
Abacus: 4 blue beads, 3 orange beads. Turtle: small.

(G) $3 - 2 + 1$
Abacus: 3 blue beads, 2 orange beads. Turtle: medium.

(H) $1 - 1 + 2$
Abacus: 1 blue bead, 1 orange bead. Turtle: small.

AUTORAS: Karina Torres Maldonado y Leydy Ochoa Armas.